

November 13, 2015

VIA EMAIL: <u>Guzman.Henry@epa.gov</u>

AND FEDERAL EXPRESS

Henry Guzmán, Esq.
Assistant Regional Counsel
Office of Regional Counsel
U.S. Environmental Protection Agency, Region II
290 Broadway, 17th Floor
New York, NY 10007-1866

Re: Request for Information Pursuant to 42 U.S.C. §9604(e) of the Comprehensive Environmental Response, Compensation, and Liability Act, San Germán Ground Water Contamination Site, San Germán, PR.

Dear Mr. Guzmán:

This letter is in response to EPA's Request for Information letter issued to CCL Label Inc. ("CCL"), dated September 16, 2015, and signed by Nicoletta DiForte in the above referenced matter. CCL and CCL Label (San Germán), Inc. ("CCL San Germán") requested from EPA extensions of time to provide its response to the Request for Information. EPA granted the extensions to respond until November 13, 2015. Therefore, this response is submitted within the term provided.

CCL San Germán currently leases a property owned by the Puerto Rico Industrial Development Company ("PRIDCO") at el Retiro Ward in San Germán, Puerto Rico. The property is identified by PRIDCO in its real estate records and in the lease agreement with CCL San Germán as Project No. S-0551-0-60 & Ext., (the "Facility").

EPA states in the Superfund Program Proposed Plan ("the Plan") for the San Germán Groundwater Contamination Superfund Site (OU-1) (the "Site"), and in other documents in the Administrative Record, that the Facility is one of two sources of contamination of the Site. The other source that EPA identifies is another PRIDCO property identified in PRIDCO's real estate records as Project T-0343-0-56 and T-0261, currently leased by Wallace Silversmith de Puerto Rico Ltd. EPA also states in the Plan that it identified five volatile organic compounds or contaminants related to the Site. These contaminants of concern ("COC") are: (i) PCE; (ii) TCE; (iii) cis-1,2-DCE; (iv) 1.1-DCE; and (v) Vinyl Chloride.

CCL San Germán submitted comments to the Plan during the public comment period. The comments were submitted through letters dated September 11, 2015 and October 23, 2015.

CCL San Germán argued in its comments, based on its best knowledge and on the available information, and on the files and documents provided by PRIDCO, that: (i) any presence of the COC related to the EPA's Site investigation found at the Facility is pre-existing to CCL San Germán occupation of the property and to any of the previous insert printing companies' leases; (ii) the wastes generated by the printing industries that occupied the Facility previous to CCL San Germán, were not hazardous and non-detect for the COC at the time when they leased the Facility; and (iii) EPA cannot discard the possibility that the presence of these COC at the Facility might have been caused by degradation and/or migration from other neighboring properties in the industrial park, and therefore, cannot exclude other tenants in the industrial park whom might have used these COC, as potentially responsible parties.

Notwithstanding the foregoing, and without assuming any responsibility for pre-existing conditions at the Facility or conditions not caused by them, CCL and CCL San Germán are willing to cooperate in good faith with EPA in providing the available information that they have. In this regard, CCL and CCL San Germán provide the following responses to EPA's request for information, based on its best knowledge and available information at the time of submitting this response. CCL and CCL San Germán reserves the right to supplement, amend or correct any of the responses contained herein, if new or additional information is found or obtained.

Please note that the exhibits have been numerated according to the question number. Not all the responses to the questions include an exhibit. Therefore, exhibits will not follow a consecutive numeric sequence.

Question 1

State the correct legal name and mailing address of CCL Label Inc.

Response to question 1:

CCL Label, Inc.,

161 Worcester Road, Suite 502, Framingham, Massachusetts 01701.

Question 2

If CCL Label Inc. wishes to designate an individual for all future correspondence concerning this Site, include any legal notices, please so indicate here by providing that individual's name, address, telephone number, email, and FAX number.

Response to EPA's Request for Information Page 3 of 16

Response to question 2:

Jorge J. García-Díaz McConnell Valdés LLC 270 Muñoz Rivera Avenue San Juan, Puerto Rico 00918 (787) 250-5814 (787) 759-9292 Email: jig@mcvpr.com

Question 3

For CCL Label Inc., please provide:

- a. The date of incorporation;
- b. State of incorporation; and
- c. Agent for service of process.

Response to question 3:

- a. December 1, 1987;
- b. Michigan, USA;
- c. Corporation Service Company.

Question 4

If CCL Label Inc. currently is, or was at any time, a subsidiary or affiliate of another corporation or other business entity, identify each of those entities and each entity's Chief Executive Officer, President, and Chairman of the Board.

Response to question 4:

CCL Label, Inc., is a wholly owned subsidiary of CCL Industries Corporation, a Delaware Corporation, a holding company. The President of CCL Industries Corporation is Geoff Martin. The ultimate parent of CCL Label, Inc., is CCL Industries Inc., a Canadian corporation. The Chairman of CCL Industries Inc., is Donald Lang. The Chief Executive Officer and President of CCL Industries Inc., is Geoff Martin.

Question 5

Explain the nature of the corporate relationship between CCL Label Inc. and the following companies, providing documentation that supports each response:

- a. Insert Corporation of Puerto Rico;
- b. Menasha Insertco Acquisition Company;
- c. Menasha Corporation;
- d. Lucas Insertco Pharmaceutical Printing Co.;
- e. John D. Lucas Printing Co.;
- f. CCL Insertco de Puerto Rico, Inc.; and
- g. CCL Label (San German) Inc.

Kindly provide documents that support your responses.

Response to question 5:

In 2003, CCL Label, Inc. purchased all of the shares of Lucas-Insertco Pharmaceutical Printing Co. of Puerto Rico. See details under the response to Question 6 below. Following is additional information of the entities listed above.

- a. Insert Corporation de P.R. Inc. ("Insertco PR") was a Puerto Rico corporation existing prior to April 13, 1995. See Exhibit 5-A
- b. Menasha Insertco Acquisition Company ("MIAC") was incorporated under the laws of Delaware on January 31, 1995. See Exhibit 5-B. On April 28, 1995, MIAC merged with Insertco PR, surviving MIAC under the name NJP Insertco, Inc. See Exhibit 5-A.
- c. Menasha Corporation has no relationship to CCL Label, Inc. We understand that Menasha Corporation was the parent company of MIAC.
- d. On April 30, 1998, NJP Insertco, Inc. changed its name to Lucas-Insertco Pharmaceutical Printing Co. of Puerto Rico. See Exhibit 5-D.
- e. John D. Lucas Printing Co. has no relationship with CCL Label, Inc. We understand that John D. Lucas Printing Co. was an affiliate of Lucas Insertco Pharmaceutical Printing Co. of Puerto Rico.
- f. On September 9, 2003, Lucas-Insertco Pharmaceutical Printing Co. of Puerto Rico changed its name to CCL Insertco de Puerto Rico, Inc.
- g. On April 18, 2011, CCL Insertco de Puerto Rico, Inc. changed its name to CCL Label (San German) Inc. See Exhibit 5-G.

Question 6

Describe the nature of the acquisition of Lucas Insertco Pharmaceutical Printing Co. by CCL Label Inc., i.e. stock, asset transaction or other type of acquisition.

a. Describe the nature of the sale and/or transaction of each.

- b. State if the transaction consisted of a merger, consolidation, sale or transfer of assets, and submit all documents relating to such transaction, including all documents pertaining to any agreements, express or implied, for the purchasing corporation to assume the liabilities of the selling corporation.
- c. Did CCL Label Inc. retain the liabilities of Lucas Insertco for events prior to the sale?
- d. Is CCL Label Inc. the successor to any of Lucas Insertco's liabilities, including those under CERCLA?
- e. Describe the nature of CCL Label Inc.'s succession of liabilities for Lucas Insertco and provide the relevant documentation
- f. Did CCL Label Inc. sell or otherwise divest itself of any stock, assets, or other interest in Lucas Insertco?

Response to question 6:

- a. In 2003 CCL Label, Inc. purchased all of the shares of Lucas-Insertco Pharmaceutical Printing Co. of Puerto Rico ("Lucas Insertco"), a Delaware corporation, from Kollman Associates LLC, a Maryland limited liability company. See Section 2.1 of the Share and Membership Rights Purchase Agreement dated June 6, 2003 attached as Exhibit 6 (the "Sale Agreement")
- b. The transaction was a stock sale.
- c. CCL Label, Inc. did not agree to assume the liabilities of Lucas Insertco, other than with respect to certain obligations of Lucas Insertco to Allfirst Bank. See Section 8.6 of the Sale Agreement. In addition, the seller was required to pay and discharge Lucas Insertco's liabilities in the ordinary course of business prior to closing. See Section 6.6(g) of the Sale Agreement.
- d. No. See response c above.
- e. See response c above
- f. No.

Question 7:

Describe the condition of the Facility at the time CCL Label leased the Facility. Provide all available photos and/or documents that would substantiate this.

Response to question 7:

At the time CCL Insertco Puerto Rico Inc., leased the Facility, it was in good visually clean condition. However, based on the available documentation, before CCL Insertco Puerto Rico Inc., leased the Facility, Menasha Corporation conducted in March of 1995 a limited Phase II of the Facility for benchmark purposes before NJP Insertco occupied the Facility. Based on the information and documents obtained from PRIDCO's files, the laboratory analysis of said limited

Phase II revealed the presence of the COC at the Facility before any of the printing and label companies occupied it. See Exhibit 7.

The existing building at the Facility consists of an approximate 36,000 square-feet single-story industrial building. The building was originally constructed in the mid-1960s and has been utilized by printing industries for its present purpose since approximately 1996. Below is a layout of the building when it was leased by CCL Insertco Puerto Rico.

CCL Insertco Plant Layout



Question 8

Before CCL Label's lease of the Facility, did CCL Label or any of its agents, officers, or employees enter into any arrangements to investigate the physical and/or environmental conditions at the Facility? If so, please provide copies of all reports, analyses, and characterizations relating to the physical and/or environmental conditions at the Facility.

Response to question 8:

In February of 2003, AMEC Earth & Environmental, Inc., conducted an "Environmental and Pollution Liability Assessment" of the Facility and submitted it to CCL Industries, Inc. See Exhibit 8.

CCL respectfully submits to EPA the following clarifications with respect to certain inaccurate statements contained in said environmental assessment report:

1. Table in Page 3 – states the following: <u>"Hazardous Liquid Wastes Generated" – "Lucas has generated/disposed of the following liquid wastes during calendar year 2002: 900 gallons of residual inks/paints/thinners (commingled)"</u>

We understand that this statement is inaccurate, and must clarify, that based on the available information, there was no hazardous waste generation at the Facility at the time of the report. Also, upon information, belief and available information, the process, inks and chemicals used at the time of the report, and before it by previous printing companies at the Facility, were similar and there was no generation of hazardous waste. Please note that there is a TCLP result in Appendix B of the report showing that the ink waste is non-hazardous and non-detect for the COC. Also, please note that as far back as November of 1995, a TCLP sampling result for the printing or press solution waste (which includes ink) of NJP Insertco, revealed that the waste was non-hazardous and non-detect for the COC. See the TCLP result in appendix D of the Environmental Analysis document included in Exhibit 8-A of this response.

2. Page 17, Section 5.3.11 – States that <u>"Lucas Insertco stores containers of hazardous materials in a covered area along the east side of the main structure (Photograph 4)".</u>

We must clarify that this statement refers to the raw materials and chemical storage area. Chemicals and other detergents and cleaning solutions are stored in this area for use at the Facility and there is no generation or storage of hazardous waste.

3. Page 21, first bullet at bottom of page – States that <u>"The facility is listed as a conditionally exempt small quantity generator".</u>

We must clarify that the waste generated at CCL San Germán is not hazardous. We do not know why the Facility was listed at the time of the report as a conditionally exempt small quantity generator. We understand, based on the available information and belief, that any listing of the Facility as such, must be related to a previous tenant before any printing company occupied the Facility.

4. Page 22, Section 7.1.4 Hazardous Waste Storage / Disposal – States that: "Lucas Insertco stores hazardous wastes in an exterior storage area (at the east side of the facility". (Sic).

We must clarify that this statement is inaccurate. As mentioned before, there was no hazardous waste generation at the Facility at the time of the report. We believe that the report is referring in that sentence to the raw materials and chemical storage area and not to the ink waste storage area. Note that the report discusses the non-hazardous nature of the waste paint liquid and ink sludge in the next sentence. Please refer also to our clarification in item 1 above in this response.

Question 9

Describe in detail the nature of the business and the production processes conducted by CCL Label at the Facility until present including:

- a. The date such operation commenced and concluded:
- b. The types of work performed at each location, including but not limited to the industrial, chemical, or institutional processes undertaken at each location; and
- c. A description of the generation, storage, placement, disposal, or treatment of wastes at the Facility by date.

Response to question 9:

- a. NJP Insertco, Inc., commenced operations at the Facility on or about 1996 and the operations continue today under the name of CCL Label (San Germán), Inc.
- b. The company supplies printed packaging components to the medical device and pharmaceutical industry. The printed product is delivered as an inserts, outsets and booklets format, generally printed in paper based material. Products are printed in an offset process, using soy based inks. Work performed at the Facility consists of Customer Service receiving a purchase order, specifications and artwork, Customer Service will create a job order, which will be handed to Scheduling. Scheduling will verify raw materials (paper and inks), tolling and equipment availability and enter the job order into a schedule. Quality personnel verify order against customer original order, product specification and approved artwork. Pre-press creates plates from customer artwork and specifications. Order is printed at press area using soy inks. The product is cut to its final size at Cutting. Product is then folded to the final fold size as per customer specification, and product is packaged into its final shipping box. Quality inspects product at all stages (press, cutting and folding and samples are retained from begging, middle and end). The order documentation is verified to assure that all documentation, sampling and testing have been properly completed. Then, the product is released and shipped. See Exhibit 9.
- c. From the offset printing process, wastes are generated in the form of paper, corrugate, aluminum and non-hazardous sludge ink. Regular office waste is generated in the form of office paper and food waste. Paper, corrugate and aluminum are typically stored in containers outside the facility and sent to be recycled. Sludge ink is a non-hazardous residue, originating from the printing process. Sludge ink is generated from inks and water fountain solutions. Sludge ink is stored in two 400 gallon tanks outside the facility in a containment area. The sludge ink waste is disposed by Republic Services at its Allied Waste of Ponce Ponce Landfill. See Exhibit 9-A. The regular office waste is disposed by Consolidated Waste Services ConWaste.

Question 10

If there were any changes in the nature of the business and/or the production processes, explain the changes and the dates of such changes.

Response to question 10:

No major changes in the nature of the operation have occurred. Equipment has been updated with newer technology, using same paper, soy based inks and similar chemicals.

Question 11

During the time that CCL Label operated at the Facility, please provide lists for:

- All the chemicals that were used at the Facility. Provide the quantity for each chemical that was used on a yearly basis. Relate the use of these chemicals to the manufacturing process;
- b. All wastes that were generated at the Facility. Provide the quantity of each waste that was generated on a yearly basis; and
- c. All chemicals and wastes that were stored at the Facility, the method of storage (e.g., drums, tanks, etc.), and the location of storage.

Response to question 11:

a. All the chemicals that were used at the Facility. Provide the quantity for each chemical that was used on a yearly basis. Relate the use of these chemicals to the manufacturing process; The following is an estimate of the chemicals used per processes:

Purchase Summary	Manufacture - process	UOM	2011	2012	2013	2014	OCT YTD 2015
Sun Chemical Inks	Press	Pounds	8,600	8,109	9,824	9,352	7,131
Superior Ink	Press	Pounds	6,627	8,008	7,165	7,608	8,943
FUJI FN-6	Pre-press	Gallons	29	22	24	17	22
FUJI LP D3WR	Pre-press	Gallons	85	92	81	92	94
FUJI LP D3W	Pre-press	Gallons	23	6	8	•	8
Velocity plate cleaner	Press	Quarts	118	102	90	85	110
Alkales	Press	Gallons	55	80	55	110	165
2451 Solution	Press	Gallons	55	100	70	197	55
Varn Wash V-120	Press	Gallons	165	163	200	185	165
Varn 379 (606)	Press	Gallons	55	105	55	-	-
Varn Magesta 606	Press	Gallons	-	-	-	55	55
Orange Wash infinity	Press	Gallons	a -	-		235	330
Alcohol 99%	Press	Gallons	290	290	185	145	215

Response to EPA's Request for Information Page 10 of 16

The above data consist of products used during the last 5 years, other similar product may have been used for the same process. See Exhibit 11-A.

- b. All wastes that were generated at the Facility. Provide the quantity of each waste that was generated on a yearly basis; and
 - Non-hazardous sludge ink: Yearly average of 850 Gallons
 - Paper waste generated: Estimate yearly average of 526 Metrics Tons
 - Corrugate: Estimate yearly average of 11 Metric Tons
 - Regular office waste yearly average of 1216 cubic yards
 - Aluminum: Data not available See Exhibit 11-B
- c. All chemicals and wastes that were stored at the Facility, the method of storage (e.g. drums, tanks, etc.), and the location of storage.

Description	Chemicals stored	UOM	Method of storage
Sun Chemical Inks	450	Pounds	In side facility storage, plastic containers on shelves
Superior Ink	625	Pounds	In side facility storage, plastic containers on shelves
FUJI FN-6	5	Gallons	In side facility storage, plastic containers on shelves
FUJI LP D3WR	15	Gallons	In side facility storage, plastic containers on shelves
FUJI LP D3W	5	Gallons	In side facility storage, plastic containers on shelves
Velocity plate cleaner	14	Quarts	
Alkales	55	Gallons	
2451 Solution	55	Gallons	
Varn Wash V-120	55	Gallons	
Varn 379 (606)	0	Gallons	
Varn Magesta 606	55	Gallons	Stored in drums at a self-contained room outside of the facility
Orange Wash infinity	55	Gallons	Stored in drums at a self-contained room outside of the facility
Alcohol 99%	55	Gallons	Stored in drums at a self-contained room outside of the facility
Non-hazardous sludge ink waste	800	Gallons	Stored in two 400 gallons above ground storage tanks with secondary containment in a covered area outside the building

Question 12

For the time that CCL Label operated at the Facility, explain how any chemical wastes that were generated were disposed of. Provide manifests or shipping papers to document.

Response to question 12:

Non-hazardous "sludge ink" from the offset printing process is generated and stored in two 400 gallon capacity above ground storage tanks and product containers. Ink sludge storage tanks are both within a containment structure. Sludge ink is disposed by Republic Services, Inc. Non-hazardous sludge ink waste is tested periodically and the analytical results are included as well as the disposal manifests. See Exhibit 12.

Question 13

Did CCL Label store or stockpile any industrial wastes at the Facility? Did any of CCL Label's agents, representatives, officers or employees enter into arrangements of any kind relating to the treatment, storage or disposal of industrial wastes? If so, explain all such arrangements, with whom they were made, the chemical names and the appropriate volumes of the industrial wastes, and the time period such arrangements were in effect. Provide copies of all documents that are relevant to your response to these questions.

Response to question 13:

CCL San Germán stores non-hazardous "Sludge ink" waste in two above ground storage tanks of approximately 400 gallons capacity each. The company currently uses Republic Services, Inc. to dispose the sludge ink at the Allied Waste Ponce Landfill. Average yearly volume of sludge ink waste is approximately 850 gallons. See Exhibit 12.

Question 14

Did CCL Label use or install any underground or aboveground storage tanks on the properties? If yes, please provide the answers and all documents that are relevant to your responses:

- a. Please supply the date when they were installed, their size and material of construction, where they were installed, for what purpose, and what chemicals/wastes were stored in them.
- b. Were any of these tanks ever removed or did they ever leak?
- c. Were any of the tanks already present at the Facility prior to CCL Label's operations?

Response to question 14:

CCL San Germán uses 2 PVC 400 gallon above ground storage tanks to store non-hazardous "sludge ink". These tanks have secondary containment and are located outside the building in a roof-covered area.

- a. The tanks are 400 gallons capacity each and are made of PVC. The tanks are used to store the sludge ink waste. The tanks were installed on or about 1998, but the exact date is not known.
- b. One of the above ground storage tanks was replaced with a new one approximately 3 years ago as a result of a small drip from its valve. The dripping was contained in the secondary containment. The company decided to replace the tank instead of fixing the valve as a precautionary measure in order to avoid any potential future dripping from the valve. The replacement date is unknown.
- c. CCL San Germán has not used any pre-existing tanks.

Question 15

During CCL Label's operations at the Facility, describe all leaks, spills, or releases at or from the Facility of materials that were or may have been hazardous, toxic, flammable, reactive, or corrosive, or may have contained hazardous substances, including, but not limited:

- a. The date of each such occurrence:
- b. The specific location at the Facility of each such occurrence; and
- c. The materials that were involved in each such occurrence in terms of the nature, composition, color, smell, and physical state (solid or liquid) of such material.

Response to question 15:

During CCL San German operations at the Facility, the only "leak" was a small dripping of the non-hazardous sludge ink from the valve of one of the two above ground storage tanks located outside the building. The dripping was contained in the secondary containment dike and the tank was replaced with a new one. The date of the dripping and replacement of the tank was approximately 3 years ago.

Question 16

During its operation of the Facility, did CCL Label ever conduct any type of water, soil, or sediment sampling at or near the Facility for purposes of identifying whether there had been a release of any chemical(s) to the environment and/or in compliance with or response to any Federal or Commonwealth environmental regulation(s)? Provide all reports or analytical data that would substantiate this.

Response to EPA's Request for Information Page 13 of 16

Response to question 16:

CCL San Germán has not conducted any type of water, soil or sediment sampling at or near the Facility during its operation thereat, nor has it been required by any Federal or Commonwealth of Puerto Rico environmental agency.

Question 17

During CCL Label's operations at the Facility, were soils remediated, excavated or removed from the Facility'?

- a. If yes, what was the source of the material that was used to backfill the excavation?
- b. Please provide the vendor/location from where the backfill material was obtained and what efforts were taken to determine whether the material was clean.
- c. Detail the effort and provide documentation to substantiate your response including photographs, reports, and analytical data.

Response to question 17:

During CCL San Germán operations at the facility, there has not been any soil remediated, excavated or removed from the Facility.

Question 18

Identify and provide copies of all insurance policies and indemnification agreements held or entered into which arguably could indemnify CCL Label against any liability which it may be found to have under CERCLA for releases and threatened releases of hazardous substances at and from the Site. In response to this request, please provide not only those insurance policies and agreements which currently are in effect, but also include those which were in effect during the years CCL Label's operated at the Facility.

Response to question 18:

CCL holds a Premises Pollution Liability III Insurance Policy issued by Illinois Insurance Company, Policy No. PPL G24876871004 and a Global Premises Pollution Liability Insurance Policy issued by ACE INA Insurance, Policy No. EIL333621. See Exhibits 18 and 18-A, respectively.

PRIDCO's Supplement and Amendment to Lease Contract with Insert Corporation of Puerto Rico, which was dated on August 15th, 1995, with a term of 10 years, included an environmental indemnity clause provision to the benefit of the tenant and to its successors and assigns.

Response to EPA's Request for Information Page 14 of 16

amongst others, for conditions caused before the date of the lease. See clause THIRTEEN "Environmental Protection and Compliance" of Exhibit 18-B. As we have stated before, there is documentation evidencing a pre-existing condition at the Facility before the lease agreement of August of 1995 and before the printing companies leased or occupied the Facility.

Question 19

Provide the name, address, and phone number of all persons that CCL Label employed during the time CCL Label leased at the Facility that would be familiar with CCL Label's operations, waste storage and disposal practices, and any remediation, excavation, or removal of soil from the properties.

Response to question 19:

Ms. Susan Snelgrove, Vice-President, Risk & Environmental Management CCL Industries Inc.
Suite 500, 105 Gordon Baker Road
Willowdale, Ontario Canada
M2H 3P8
1-416-756-8565

Mr. Mark McClendon – Vice-President and General Counsel CCL Label Inc.
161 Worcester Road, Suite 502
Framingham, MA 01701
1-440-878-7241

Mr. Dave Joesten, General Manager 1831-D Portal Street Baltimore, MD 21224 410-558-0236

Mr. Luis D. Perez, Plant Manager
Mr. Roberto Santiago, Quality Manager
Mr. Edgar Cordero, Warehouse and Shipping
El Retiro Industrial Park
Road 302 Km. 33.2
San Germán, Puerto Rico 00683
787-892-1268

Response to EPA's Request for Information Page 15 of 16

Question 20

In the event that you have any additional information or documents which may help EPA identify other companies that may have contributed to contamination in the ground water plume at the San German Ground Water Contamination Site, please provide that information and those documents, and identify the source or your information.

Response to question 20:

This question does not require a response at this time.

Question 21

Please state the name, title and address of each individual who assisted or was consulted in the preparation of your response to this CERCLA Request for Information. In addition, state whether this person has personal knowledge of the information in the answers provided.

Response to question 21:

Mr. Mark McClendon – Vice-President and General Counsel CCL Label Inc.
161 Worcester Road, Suite 502
Framingham, MA 01701

Ms. Susan Snelgrove, Vice-President, Risk & Environmental Management CCL Industries Inc. Suite 500, 105 Gordon Baker Road Willowdale, Ontario Canada M2H 3P8

Mr. Luis D. Perez, Plant Manager Mr. Roberto Santiago, Quality Manager Mr. Edgar Cordero, Warehouse and Shipping El Retiro Industrial Park Road 302 Km. 33.2 San Germán, Puerto Rico 00683 Response to EPA's Request for Information Page 16 of 16

The information provided by the persons above is mostly from the review of available documents and files. In addition, the following persons assisted in the preparation of this response in their capacity as counsel to CCL and CCL San Germán:

Salvador Casellas-Toro Jorge J García-Díaz McConnell Valdés LLC 270 Muñoz Rivera Avenue San Juan, Puerto Rico 00918

SAN GERMAN GROUND WATER CONTAMINATION SITE CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of Puerto Rico

County of San German

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I am also aware that I am under a continuing obligation to supplement my response to EPA's Request for Information if any additional information relevant to the matters addressed in EPA's Request for Information or my response thereto should become known or available to me.

Luis Oenise Pevez
NAME (print or type)

TITLE (print or type)

AF No . 3,534

Sworn to before me this

13 day of Nowak, 2015

Notary Public My cannissian is for

5 Life According to



State of Delaware

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"INSERT CORPORATION DE F.R., INC.", A PUERTO RICO CORPORATION,

WITH AND INTO "MENASHA INSERTED ACQUISITION COMPANY" UNDER
THE NAME OF "NJP INSERTCO, INC.", A CORPORATION ORGANIZED AND
EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED
AND FILED IN THIS OFFICE THE SHIRTEENTH DAY OF APRIL, A.D. 1995,
AT 9 O'CLOCK A.M.

A CERTIFIED COFY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASILE COUNTY RECORDER OF DEEDS FOR RECORDING.

3 293.1847.19

Edward J. Freel, Secretary of State

7474596

AUTHENTICATION:

04-18-95

950032307

DATE:

2476628 8100M

CERTIFICATE OF OWNERSHIP MERGING INSERT CORPORATION DE P.R., INC. INTO MENASHA INSERTCO ACQUISITION COMPANY

(Pursuant to Section 253 of the General Corporation Law of Delaware.)

Menasha Insertco Acquisition Company, ("MIAC"), a corporation incorporated on the 31st day of January 1995, pursuant to the provisions of the General Corporation Law of the State of Delaware DOES HEREBY CERTIFY that this corporation owns 100% of the capital stock of Insert Corporation de P.R., Inc., a corporation incorporated on the 2nd day of November, 1982, pursuant to the provisions of the General Corporation Law of Puerto Rico, and that this corporation, by a resolution of its Board of Directors duly adopted on the 14th day of March 1995 determined to and did merge into itself said Insert Corporation de P.R., Inc., which resolution is in the following words to win:

WHEREAS this corporation lawfully owns 100% of the outstanding stock of Insert Corporation de P.R, Inc., a corporation organized and existing under the laws of Puerto Rico, and

WHEREAS this corporation desires to merge into itself the said Insert Corporation de P.R., Inc., and to be possessed of all the estate, property, rights, privileges and franchises of said corporation.

NOW THEREFORE, BE IT

RESOLVED, that this corporation merge into itself, and it does hereby merge into itself said Insert Corporation de P.R., Inc. and assumes all of its liabilities and obligations, and

FURTHER RESOLVED, that the vice-president, and the secretary of this corporation be and they hereby are directed to make and execute, under the corporate seal of this corporation, a certificate of ownership setting forth a copy of the resolution to merge said Insert Corporation de P.R., Inc. and assume its liabilities and obligations, and the date of adoption thereof, and to file the same in the office of the Secretary of State of Delaware, and

FURTHER RESOLVED, that the officers of this corporation be and they hereby are authorized and directed to do all acts and things whatsoever, whether within or without the State of Delaware; which may be in any way necessary or proper to effect said merger, and

FURTHER RESOLVED, that Menasha Insertco Acquisition Company relinquishes its corporate name and assumes in place thereof the name NJP Insertco, Inc. and Article I of the Certificate of Incorporation shall be amended to read as follows: NJP Insertco, Inc.

IN WITNESS WHEREOF, said Menasha Insertco Acquisition Company has caused its corporate seal to be affixed and this certificate to be signed by William C. Griffith, its Vice President and attested by Glenn D. Holcombe, its Secretary, this 14th day of March, 1995.

William C. Griffith, Vice President

Corporate Scal

Attest:

Glenn D. Holcombe, Secretary

State of Delaware Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF "MENASHA INSERTCO ACQUISITION COMPANY", FILED IN THIS OFFICE ON THE THIRTY-FIRST DAY OF JANUARY, A.D. 1995, AT 3:30 O'CLOCK P.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



TARYS OF THE PROPERTY OF THE P

Edward J. Freel, Secretary of State

AUTHENTICATION:

7392995

DATE:

02-01-95

CERTIFICATE OF INCORPORATION

OF

MENASHA INSERTCO ACQUISITION COMPANY

- 1. <u>Name</u>. The name of the Corporation is Menasha Insertco Acquisition Company.
- 2. Registered Office and Agent. The address of its registered office in the State of Delaware is Corporation Trust Center, 1209 Orange Street, Wilmington, New Castle County, DE 19801. The name of its registered agent at such address is The Corporation Trust Company.
- 3. <u>Purpose</u>. The nature of the business or purposes to be conducted or promoted is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of the State of Delaware (the "DGCL").
- 4. Authorized Stock. The total number of shares of stock which the Corporation shall have authority to issue is Three Thousand (3,000) shares of Common Stock and the par value of each of such shares is One Dollar (\$1.00) amounting in the aggregate to Three Thousand Dollars (\$3,000).
- 5. <u>Incorporator</u>. The name and mailing address of the sole incorporator is as follows:

NAME

MAILING ADDRESS

Bruce C. Davidson

411 East Wisconsin Avenue Milwaukee, WI 53202-4497

- 6. Number of Directors. The number of directors shall be fixed by, or in the manner provided in, the Bylaws.
- 7. Elimination of Certain Liability of Directors. No director of the Corporation shall be held personally liable to the Corporation or its stockholders for monetary damages of any kind for breach of fiduciary duty as a director, except for liability (i) for any breach of the director's duty of loyalty to the Corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) under Section 174 of the DGCL, or (iv) for any transaction from which the director derived an improper personal benefit.
- 8. Amendments to Certificate. The Corporation reserves the right to amend, alter, change or repeal any provision contained in this Certificate of Incorporation, in the manner now

or hereafter prescribed by the DGCL, and all rights conferred upon stockholders herein are granted subject to this reservation.

- Amendments to Bylaws. In furtherance and not in limitation of the powers conferred by the DGCL, the Board of Directors is expressly authorized to make, alter or repeal the Bylaws of the Corporation.
- I, THE UNDERSIGNED, being the Incorporator hereinbefore named, for the purpose of forming a corporation pursuant to the DGCL, do make this Certificate, hereby declaring and certifying that this is my act and deed and the facts herein stated are true, and accordingly have hereunto set my hand this 3/57 day of January, 1995.

Sole Incorporator

State of Delaware

Office of the Secretary of State PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "NJP INSERTCO, INC.", CHANGING ITS NAME FROM "NJP INSERTCO, INC." TO "LUCAS-INSERTCO PHARMACEUTICAL PRINTING CO. OF PUERTO RICO", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF APRIL, A.D. 1998, AT 11:35 O'CLOCK A.M.

TANYS OF THE PROPERTY OF THE P

Edward J. Freel, Secretary of State

AUTHENTICATION: 9481336

DATE: 12-22-98

2476628 8100

981483230

STATE of DELAWARE CERTIFICATE of AMENDMENT of CERTIFICATE of INCORPORATION

First:

That, at a meeting of the Board of Directors of NJP INSERTCO, INC., a Delaware corporation ("Corporation"), resolutions were duly adopted setting forth a proposed amendment of the Certificate of Incorporation of the Corporation, declaring said proposed amendment to be advisable, and calling a special meeting of the stockholders of the Corporation for consideration thereof, the aforesaid resolution setting forth the proposed amendment as follows:

Resolved: That the Certificate of Incorporation of NJP INSERTCO, INC., a Delaware corporation, be amended by changing the Article thereof numbered "1." so that, as amended, said Article shall be and read as follows:

Name. The name of the Corporation is LUCAS-INSERTCO PHARMACEUTICAL PRINTING CO. OF PUERTO RICO.

Second:

That thereafter, pursuant to a resolution of the Board of Directors of the Corporation, a special meeting of the stockholders of the Corporation was duly called and held, upon notice in accordance with Section 222 of the General Corporation Law of the State of Delaware, at which special meeting the necessary number of shares as required by statute were voted in favor of the proposed amendment.

Third:

That the proposed amendment was duly adopted in accordance with the provisions of Section 242 of the General Corporation Law of the State of Delaware.

Fourth:

That the capital of the Corporation shall not be reduced under or by reason of the aforesaid amendment.

In Witness Whereof, the Corporation has caused this certificate to be signed on its behalf by an authorized officer on this 28 day of April, A.D. 1998.

By:

Theresa A. Kollman,

Vice President and Secretary

Delaware

PAGE 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF

DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT

COPY OF THE CERTIFICATE OF AMENDMENT OF "CCL INSERTCO DE PUERTO

RICO, INC.", CHANGING ITS NAME FROM "CCL INSERTCO DE PUERTO

RICO, INC." TO "CCL LABEL (SAN GERMAN), INC.", FILED IN THIS

OFFICE ON THE EIGHTEENTH DAY OF APRIL, A.D. 2011, AT 4:55

O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

2476628 8100

110427632

Jeffrey W Bullock, Secretary of State **AUTHENTYCATION:** 8704207

DATE: 04-19-11

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware Secretary of State Division of Corporations Delivered 05:15 PM 04/18/2011 FILED 04:55 PM 04/18/2011 SRV 110427632 - 2476628 FILE

STATE OF DELAWARE CERTIFICATE OF AMENDMENT OF CERTIFICATE OF INCORPORATION

CCL Insertco de Puerto Rico, Inc., a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of said corporation, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of said corporation:

RESOLVED, that the Certificate of Incorporation of CCL Insertco de Puerto Rico, Inc. be amended by changing the Article thereof numbered "1." so that, as amended, said Article shall be and read as follows:

"The name of the corporation is CCL Label (San German), Inc."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said corporation has caused this certificate to be signed by Bohdan I. Sirota, its Secretary, this 18th day of April, 2011.

CCL INSERTCO DE PUERTO RICO, INC.

Bohdan I. Sirota

Secretary

SHARE AND MEMBERSHIP RIGHTS PURCHASE AGREEMENT

THIS AGREEMENT made the day of June, 2003

AMONG:

KOLLMAN & ASSOCIATES, LLC,

a limited liability company established under the laws of the State of Maryland, (hereinafter called the "Vendor"),

OF THE FIRST PART,

- and -

CCL LABEL, INC.,

a corporation incorporated under the laws of the State of Michigan, (hereinafter called the "Purchaser"),

OF THE SECOND PART,

- and -

LUCAS-INSERTCO PHARMACEUTICAL PRINTING COMPANY OF MARYLAND LLC,

a limited liability company established under the laws of the State of Maryland, (hereinafter called "Lucas"),

OF THE THIRD PART,

- and -

LUCAS-INSERTCO PHARMACEUTICAL PRINTING CO. OF PUERTO RICO,

a corporation incorporated under the laws of the State of Delaware, (hereinafter called "Lucas PR")

OF THE FOURTH PART,

- and -

NICHOLAS J. KOLLMAN,

as the Trustee of the Kevin J. Kollman Family Trust, (hereinafter the "Trust")

OF THE FIFTH PART,

-and-

NICHOLAS J. KOLLMAN,

an individual residing in Stuart, Florida, (a party for the limited purposes described in Sections 4.3 and 10.9)

OF THE SIXTH PART,

-and-

KEVIN J. KOLLMAN,

an individual residing in York, Pennsylvania, (a party for the limited purposes described in Sections 4.3 and 10.9)

OF THE SEVENTH PART.

WHEREAS Lucas and Lucas PR carry on the business of selling, marketing and printing inserts, outserts, topserts, booklets and pads for customers in the pharmaceutical industry;

AND WHEREAS the Vendor has agreed to sell, assign and transfer to the Purchaser and the Purchaser has agreed to purchase from the Vendor the Purchased Shares and the Purchased Membership Rights (as defined hereafter) on the terms and subject to the conditions hereinafter set forth;

AND WHEREAS the Trust, Nicholas J. Kollman and Kevin J. Kollman are the registered owners of 92.50% of the membership interests (and all of the voting interests) in the Vendor and are entering into this Agreement in order to make certain representations, warranties and covenants to the Purchaser as an inducement for the Purchaser to enter into this Agreement.

THIS AGREEMENT WITNESSES THAT in consideration of the respective covenants, agreements, representations, warranties and indemnities herein contained and for other good and valuable consideration (the receipt and sufficiency of which are acknowledged by each party), the parties, intending to be legally bound, covenant and agree as follows:

1. INTERPRETATION

- 1.1 Defined Terms. For the purpose of this Agreement, the following terms shall have the respective meanings set out below and grammatical variations of such terms shall have corresponding meanings:
 - (a) "Affiliate" shall mean any individual, partnership, limited liability company, corporation, trust or other entity or association, directly or indirectly, through one or more intermediaries, controlling, controlled by, or under common control with a party hereto. The term "control", as used in the immediately preceding sentence, means, with respect to a corporation or limited liability company, the right to exercise, directly or indirectly, more than fifty percent (50%) of the voting rights attributable to the controlled corporation or limited liability company, and, with respect to any individual, partnership, trust, other entity or association, the possession, directly or indirectly, of the power to direct or cause the direction of the management or policies of the controlled entity;
 - (b) "Allfirst Indebtedness" has the meaning set out in Section 8.6;
 - (c) "Business" means the business currently and heretofore carried on by Lucas and Lucas PR consisting primarily of selling, marketing and printing inserts, outserts, topserts, booklets and pads for customers in the pharmaceutical industry;
 - (d) "Business Day" means any day, other than a Saturday, a Sunday or a federal or state statutory holiday in Baltimore, Maryland;
 - (e) "Claim" has the meaning set out in Section 10.3;
 - (f) "Claim Period" has the meaning set out in Section 2.6(a);
 - (g) "Closing Date" means the date of this Agreement or such other date as may be mutually agreed upon by the Vendor and the Purchaser;
 - (h) "Closing Financial Statements" means collectively the Lucas Closing Balance Sheet, the Lucas PR Closing Balance Sheet, the Lucas Closing Income Statement and the Lucas PR Closing Income Statement;
 - (i) "Code" means the U.S. Internal Revenue Code of 1986, and the regulations thereunder, as amended from time to time, or any successor law;
 - (j) "Contract" means any written agreement, indenture, contract, lease, deed of trust, license, option, instrument or commitment;
 - (k) "Customer" has the meaning set out in Section 3.40;

- (1) "Deductible Amount" means \$50,000.
- (m) "Direct Claim" has the meaning set out in Section 10.3;
- (n) "EBITDA" means earnings before interest, income taxes, depreciation and amortization, determined in accordance with GAAP;
- (o) "Effective Date" means 12:01 a.m. Eastern Standard Time on June 1, 2003;
- (p) "Employee Plans" has the meaning set out in Section 3.36;
- (q) "Employees" has the meaning set out in Section 3.38;
- (r) "Employment Legislation" means, collectively, the Fair Labor Standards Act of 1938, as amended, 29 U.S.C. § 201 et seq.: the Occupational Safety and Health Act of 1970, as amended, 29 U.S.C. § 651 et seq.: the National Labor-Management Relations Act, 29 U.S.C. § 141 et seq.: Title VII of the Civil Rights Act of 1964, as amended, 42 U.S.C. § 2000 et seq.: the Age Discrimination in Employment Act of 1967, as amended, 29 U.S.C. § 621 et seq.: the Employee Retirement Income Security Act of 1974, as amended, 29 U.S.C. § 1000 et seq.: the Americans with Disabilities Act of 1990 as amended, 42 U.S.C. § 12101 et seq.: the Family and Medical Leave Act of 1993, 29 U.S.C. § 2601 et seq.: the Worker Adjustment Retraining and Notification Act, 29 U.S.C. § 2101 et seq. and all other applicable federal, state, territorial, and local laws governing the employment relationship in any jurisdiction in which the Business is conducted;
- (s) "Encumbrance" means any encumbrance, lien, charge, pledge, mortgage, title retention agreement, security interest of any nature, adverse claim, exception, reservation, easement, restriction, right of occupation, any matter capable of registration against title, option, right of pre-emption, privilege or any Contract to create any of the foregoing;
- (t) "Environmental Law" means any statute, code, by-law, regulation, published policy, permit, consent, approval, license, judgment, order, writ, decision, directive, common-law rule (including, without limitation, the common law respecting nuisance and tortious liability), decree, agency interpretation, injunction, agreement or authorization or requirement, whether federal, state, provincial, territorial, municipal or local, relating to;
 - (i) filings, registrations, emissions, discharges, spills, releases or threatened releases of Hazardous Substances or materials containing Hazardous Substances into the air, surface or ground water, water courses, water or sewage treatment works, drains, sewer systems, wetlands, septic systems or onto land;

- (ii) the import, export, use, distribution, treatment, storage, disposal, discharge, packaging, handling, processing, manufacturing, transportation, shipment, clean-up or other remediation of Hazardous Substances, materials containing Hazardous Substances or the equipment or apparatus containing Hazardous Substances; and
- (iii) pollution or the protection of human health or the environment, including workplace health or safety;
- (u) "ERISA" means the Employee Retirement Income Security Act of 1974, and the regulations thereunder, as amended;
- (v) "Excluded Litigation" has the meaning set out in Section 10.11;
- (w) "Financial Statement Date" means December 31, 2002;
- (x) "GAAP" has the meaning set out in Section 1.5.
- (y) "Hazardous Substance" means any substance, in solid, liquid or gaseous form, which is
 - (i) any substance, waste, pollutant, contaminant or material, in solid, liquid or gaseous form, which is a substance regulated or defined or designated as hazardous, extremely or imminently hazardous, dangerous, or toxic pursuant to any law, by any local, state, territorial, municipal or federal governmental authority;
 - any substance, waste, pollutant, contaminant or material, in solid, liquid or (ii) gaseous form, which is a substance with respect to which such a governmental authority otherwise requires environmental investigation, monitoring, reporting, or remediation; including but not limited to, (A) all substances, wastes, pollutants, contaminants and materials regulated, or defined or designated as hazardous, extremely or imminently hazardous, dangerous or toxic, under the following federal statutes and their state counterparts, as well as these statutes' implementing regulations; the Hazardous Materials Transportation Act, 42 U.S.C. section 1801 et seq., the Resource Conservation and Recovery Act, 42 U.S.C. section 6901 et ("RCRA"), the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. section 9601 et seq. ("CERCLA"), the Clean Water Act, 33 U.S.C. section 1251 et seq., the Safe Drinking Water Act, 42, U.S.C. section 300f et seq., the Atomic Energy Act, 42 U.S.C. section 2011 et seq., the Toxic Substances Control Act, 15 U.S.C. section 2601 et seq., the Federal Insecticide, Fungicide, and Rodenticide Act, 7 U.S.C. section 136 et seq., the Clean Air Act, 42 U.S.C. section 7401 et seq. and the Emergency Planning and Community Right to Know Act, 42 U.S.C. section 11001 et seq.; (B) petroleum and petroleum products including crude oil and any fractions thereof; (C) natural gas, synthetic gas, and any mixtures thereof; (D) radon; (E)

- radioactive substances; (F) asbestos; (G) ureaformaldehyde; and (H) polychlorinated biphenyls;
- (iii) a substance considered, defined, designated or classified by or under an Environmental Law to be dangerous goods, a contaminant, a hazardous product or material, a toxic or designated substance which may adversely affect human health or the environment or a waste; or
- (iv) a substance capable of posing a risk of injury or damage to health, safety, property or the environment, including but not limited to, all substances, wastes, pollutants, contaminants, chemicals or materials regulated by or defined, designated or classified under any applicable Environmental Law.
- "Indebtedness" means all obligations for borrowed money represented by bonds, debentures, notes or other similar evidence of indebtedness and obligations for borrowed money evidenced by credit, loan or other like agreements, with the amount of Indebtedness at any date to be the amount outstanding on account of principal and interest on such date;
- (aa) "Indemnification Agreement" has the meaning set out in Section 8.6;
- (bb) "Indemnified Party" has the meaning set out in Section 10.3;
- (cc) "Indemnifying Party" has the meaning set out in Section 10.3;
- (dd) "Intellectual Property" means all registered or pending or common law or civil law intellectual property issued to or owned or held by Lucas or Lucas PR, or in which Lucas or Lucas PR has an interest, or used by Lucas or Lucas PR in carrying on the Business, together with all rights under licences, registered user agreements, technology transfer agreements and other agreements or instruments relating to any of the foregoing;
- (ee) "Interim Period" means the period between the Effective Date and the Time of Closing;
- (ff) "Kollman Parties" means collectively the Vendor, the Shareholder, Nicholas J. Kollman, and Kevin J. Kollman;
- (gg) "Leased Property" has the meaning set out in Section 3.15;
- (hh) "Leases" has the meaning set out in Section 3.15;
- (ii) "Licences" has the meaning set out in Section 3.23;

- (jj) "Losses", in respect of any matter, means all claims, demands, proceedings, losses, damages, liabilities, deficiencies, costs and expenses (including, without limitation, all reasonable and necessary legal and other professional fees and disbursements, interest, penalties and amounts paid in settlement) arising as a consequence of such matter;
- (kk) "Lucas Closing Balance Sheet" has the meaning set out in Section 2.3;
- (ll) "Lucas Closing Income Statement" has the meaning set out in Section 2.3;
- (mm) "Lucas Financial Statements" means the reviewed, unconsolidated financial statements of Lucas as at and for the financial years ended December 31, 2001 and 2002, including the notes thereto, a copy of which is annexed hereto as Schedule 1.1(mm);
- (nn) "Lucas Membership Rights" means 100% of the membership rights of Lucas;
- (00) "Lucas PR Closing Balance Sheet" has the meaning set out in Section 2.3;
- (pp) "Lucas PR Closing Income Statement" has the meaning set out in Section 2.3;
- (qq) "Lucas PR Financial Statements" means the audited, unconsolidated financial statements of Lucas PR as at and for the financial years ended November 30, 2001 and 2002, including the notes thereto, a copy of which is annexed hereto as Schedule 1.1(qq);
- (rr) "Lucas PR Shares" means all of the issued and outstanding shares in the capital stock of Lucas PR;
- (ss) "Net Working Capital" has the meaning set out in Section 2.5(a);
- (tt) "Oral Contract" has the meaning set out in Section 3.21;
- (uu) "Permitted Encumbrances" means:
 - (i) liens for taxes, assessments or governmental charges or levies not yet due or liens for taxes, assessments or governmental charges or levies which are due but the validity of which is being contested in good faith by Lucas or Lucas PR, provided that Lucas or Lucas PR have provided security in the form of a security interest in assets which in the opinion of the Purchaser, acting reasonably, is sufficient to prevent any lien, charge or encumbrance being enforced against Lucas or Lucas PR;
 - (ii) undetermined or inchoate liens, charges and privileges incidental to current construction or current operations and statutory liens, charges, adverse claims, security interests or encumbrances of any nature whatsoever claimed or held by any governmental authority which have not at the time been filed or registered against the title to the asset or served

- upon Lucas or Lucas PR pursuant to law or which relate to obligations not due or delinquent;
- (iii) assignments of insurance provided to landlords (or their mortgagees) pursuant to the terms of any lease, and liens or rights reserved in any lease for rent or for compliance with the terms of such lease;
- (iv) security given in the Ordinary Course of Business (as hereafter defined) to any public utility, municipality or government or to any statutory or public authority in connection with the operations of the Business, other than security for borrowed money;
- (v) unregistered purchase money security interests arising under contracts for the supply of goods and materials entered into in the Ordinary Course of Business which secure the unpaid balance of the purchase price for goods and/or materials purchased thereunder which are due and payable (and have been outstanding) for not more than 30 days after delivery of the invoice therefor; and
- (vi) the Encumbrances described in Schedule 1.1(uu);
- (vv) "Purchase Price" has the meaning set out in Section 2.2;
- (ww) "Purchased Membership Rights" has the meaning set out in Section 2.1;
- (xx) "Purchased Shares" has the meaning set out in Section 2.1;
- (yy) "Promissory Note" has the meaning set out in Section 2.2(b);
- (zz) "Shareholder" mean the Trust;
- (aaa) "Third Party Claim" has the meaning set out in Section 10.3;
- (bbb) "Time of Closing" means 10:00 a.m. Eastern Standard Time on the Closing Date or such other time on the Closing Date as the Vendor and the Purchaser may mutually determine;
- (ccc) "Tollgate Taxes" has the meaning set out in Section 3.29; and
- (ddd) "Vendor's Counsel" means Gebhardt & Smith LLP, whose address is 401 East Pratt Street, 9th Floor, Baltimore, Maryland 21202.
- 1.2 Currency. Unless otherwise indicated, all dollar amounts referred to in this Agreement are expressed in United States dollars.

- 1.3 Sections and Headings. The division of this Agreement into Articles and Sections and the insertion of headings and a table of contents are for convenience of reference only and shall not affect the interpretation of this Agreement. Unless otherwise indicated, any reference in this Agreement to an Article, Section or a Schedule refers to the specified Article or Section of, or Schedule to this Agreement.
- 1.4 Number, Gender and Persons. In this Agreement, words importing the singular number only shall include the plural and *vice versa*, words importing gender shall include all genders and words importing persons shall include individuals, corporations, partnerships, associations, trusts, unincorporated organizations, governmental bodies and other legal or business entities of any kind whatsoever.
- 1.5 Accounting Principles. Any reference in this Agreement to generally accepted accounting principles or "GAAP" refers to generally accepted accounting principles which have been established in the United States, consistently applied.
- Vendor's, Shareholder's, Lucas' and Lucas PR's Knowledge. For the purposes of any reference in this Agreement to "knowledge of the Vendor", "knowledge of the Vendor, Lucas and Lucas PR", or "knowledge of the Vendor, the Shareholder, Lucas and Lucas PR", shall mean the actual knowledge of Nicholas J. Kollman, Kevin J. Kollman, Peggy Slendorn-Koppe and Luis Rosado Garcia.
- 1.7 Ordinary Course of Business. Any reference in this Agreement to the "Ordinary Course of Business" shall mean the ordinary and normal course of the Business, consistent with the practice of Lucas since January 1, 2002 and of Lucas PR since December 1, 2001.
- 1.8 Entire Agreement. This Agreement constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior agreements, understandings, negotiations and discussions, whether written or oral. There are no conditions, covenants, agreements, representations, warranties or other provisions, express or implied, collateral, statutory or otherwise, relating to the subject matter hereof except as herein provided.
- 1.9 Time of Essence. Time shall be of the essence of this Agreement.
- 1.10 Applicable Law. This Agreement shall be construed, interpreted and enforced in accordance with, and the respective rights and obligations of the parties shall be governed by, the laws of the State of Maryland and the federal laws of the United States of America applicable therein, and each of the parties hereto hereby irrevocably consents and attorns to the exclusive venue and jurisdiction of the courts of the State of Maryland for any action arising out of this Agreement. EACH OF THE PARTIES HEREBY WAIVES ANY RIGHT TO TRIAL BY JURY OF ANY CLAIM, DEMAND, ACTION OR CAUSE OF ACTION (i) ARISING UNDER THIS AGREEMENT OR (ii) IN ANY WAY CONNECTED WITH OR RELATED OR INCIDENTAL TO THE DEALINGS OF THE PARTIES HERETO IN RESPECT OF THIS AGREEMENT OR THE TRANSACTIONS RELATED HERETO IN EACH CASE

WHETHER NOW EXISTING OR HEREAFTER ARISING, AND WHETHER IN CONTRACT, TORT, EQUITY OR OTHERWISE. EACH OF THE PARTIES HEREBY AGREES AND CONSENTS THAT ANY SUCH CLAIM, DEMAND, ACTION OR CAUSE OF ACTION SHALL BE DECIDED BY COURT TRIAL WITHOUT A JURY AND THAT EACH PARTY MAY FILE AN ORIGINAL COUNTERPART OF THIS AGREEMENT WITH ANY COURT AS WRITTEN EVIDENCE OF THE CONSENT OF THE PARTIES HERETO TO THE WAIVER OF THEIR RIGHT TO TRIAL BY JURY.

1.11 Best Efforts. The parties acknowledge and agree that, for all purposes of this Agreement, an obligation on the part of any party to use its best efforts to obtain any waiver, consent, approval, permit, license or other document shall not require such party to make any payment to any person for the purpose of procuring the same, other than payments for amounts due and payable to such person under the terms of any relevant agreement as it stood prior to the date of this Agreement, payments for incidental expenses incurred by such person and payments required by any applicable law or regulation, nor permit the Vendor (without the consent of the Purchaser) to change any contractual rights or obligations relating to Lucas, Lucas PR or the Purchaser.

1.12 Schedules. The following Schedules are attached to and form part of this Agreement:

Schedule 1.1(mm) Lucas Financial Statements

Schedule 1.1(qq) - Lucas PR Financial Statements

Schedule 1.1(uu) Permitted Encumbrances

Schedule 2.2 Purchase Price Allocation

Schedule 2.2(b) Promissory Note

Schedule 2.6 Escrow Agreement

Schedule 3.13 Location of Assets

Schedule 3.14 Title to Personal Property

Schedule 3.15 - Leased Real Property

Schedule 3.16 Inventories

Schedule 3.18 Intellectual Property

Schedule 3.19 Insurance Policies

Schedule 3.21	(#)	Material Contracts
Schedule 3.23		Licenses and Permits
Schedule 3.24A	, .	Regulatory Consents and Approvals
Schedule 3.24B	÷	Contractual Consents and Approvals
Schedule 3.25	·	Exceptions to GAAP
Schedule 3.25A	\ <u>*</u>	May 31, 2003 Financial Statements
Schedule 3.28 -	:=:	Absence of Changes
Schedule 3.29	196	Taxes
Schedule 3.30		Legal and Regulatory Proceedings
Schedule 3.31	: 	Accounts and Attorneys
Schedule 3.32		Directors and Officers
Schedule 3.33	()E	Dividends
Schedule 3.34	0)= 0	Transactions with Affiliates
Schedule 3.36	T.	Employee Plans
Schedule 3.37A	3=	Collective Agreements
Schedule 3.37B	: #	Work Stoppages
Schedule 3.38A	Ê	Employees
Schedule 3.38B	-	Absent Employees
Schedule 3.38C	2	Charges Under Employment Legislation
Schedule 3.38G	=	Employee Claims
Schedule 3.40A	=	Customers
Schedule 3.40B		Rebates, Discounts and Allowances
Schedule 3.41		Product Warranties

Schedule 5.4 Purchaser's Consents and Approvals

Schedule 7.1(j) Form of Non-Competition Agreement

Schedule 7.1(k) - Employment/Consulting Agreement

Schedule 7.1(1) Form of Opinion of Vendor's Counsel

Schedule 7.1(o) Form of Release

Schedule 8.6 Form of Indemnification Agreement

Schedule 10.11 - Excluded Litigation

2. PURCHASE AND SALE OF PURCHASED SHARES

- Purchase and Sale of Purchased Shares and the Purchased Membership Rights. Subject to the terms and conditions hereof, the Vendor covenants and agrees to sell, assign and transfer to the Purchaser and the Purchaser covenants and agrees to purchase from the Vendor, on the Closing Date, all but not less than all of the Lucas PR Shares (the "Purchased Shares") and all but not less than 100% of the Lucas Membership Rights (the "Purchased Membership Rights"). Title to the Purchased Shares and the Purchased Membership Rights shall be transferred on the Closing Date upon the payment of the Purchase Price in accordance with the Section 2.2, with all economic and accounting aspects of the transaction to have effect as of the Effective Date.
- Purchase Price. The purchase price payable by the Purchaser to the Vendor for the Purchased Shares and the Purchased Membership Rights shall be \$10,125,000, subject to adjustments in accordance with Section 2.5 hereof (the "Purchase Price"). The Purchase Price shall be allocated to the Purchased Shares and the Purchased Membership Rights as set out on Schedule 2.2. At the Time of Closing, the Purchase Price shall be paid and satisfied, subject to adjustments in accordance with Section 2.5, as follows:
 - (a) on the Closing Date the Purchaser shall pay to the Vendor by wire transfer to an account specified in writing by the Vendor two (2) Business Days prior to the Closing Date the amount of \$9,875,000;
 - (b) as to the balance of the Purchase Price equaling \$250,000, by delivery of a promissory note by the Purchaser to the Vendor in the form attached hereto as Schedule 2.2(b) (the "Promissory Note").
- 2.3 Closing Financial Statements. As soon as is practicable, and in any event not later than 45 days following the Closing Date, the Purchaser shall deliver to the Vendor an unaudited, unconsolidated balance sheet for Lucas as of the opening of business on the Effective Date (the "Lucas Closing Balance Sheet"), an unaudited, unconsolidated income statement for Lucas for the period from January 1, 2003 to the Effective Date (the "Lucas Closing Income Statement"), an unaudited, unconsolidated balance sheet for Lucas PR as of the opening of business on the Effective Date (the "Lucas PR Closing

Balance Sheet") and an unaudited, unconsolidated income statement for Lucas PR for the period from December 1, 2002 to the Effective Date (the "Lucas PR Closing Income Statement"). The Lucas Closing Balance Sheet and the Lucas PR Closing Balance Sheet shall be prepared in accordance with GAAP applied on a basis consistent with the Lucas Financial Statements and the Lucas PR Financial Statements, respectively, and shall present fairly the unconsolidated financial position of Lucas and Lucas PR, respectively, as at the Effective Date. The Lucas Closing Income Statement and the Lucas PR Closing Income Statement shall be prepared in accordance with GAAP applied on a basis consistent with the Lucas Financial Statements and the Lucas PR Financial Statements, respectively, and shall present fairly the unconsolidated sales, earnings and results of operations for the period between January 1, 2003 and the Effective Date in the case of Lucas PR.

Disputes Concerning Closing Financial Statements. The Vendor shall have a period 2.4 of 20 Business Days from the date it receives the Closing Financial Statements in which to review the same. For the purpose of such review, the Purchaser agrees to cause its accountants and representatives to permit the Vendor and its authorized representatives to examine all schedules and other documentation used or prepared by the Purchaser's accountants and representatives including, to the extent the accountants and representatives so permit, their working papers. If no objection to the Closing Financial Statements is given to the Purchaser by the Vendor within such 20 Business Day period, the Closing Financial Statements shall be deemed to have been approved as of the last day of such 20 Business Day period. If the Vendor objects to any of the Closing Financial Statements within such 20 Business Day period by giving notice to the Purchaser setting out in reasonable detail the nature of such objection, the parties agree to attempt to resolve the matters in dispute within 15 Business Days from the date the Vendor gives such notice to the Purchaser. If all matters in dispute are resolved by the parties, the Closing Financial Statements shall be modified to the extent required to give effect to such resolution and shall be deemed to have been approved as of the date of such resolution. If the parties cannot resolve all matters in dispute within such 15 submitted matters shall be unresolved period, all Business Day PriceWaterhouseCoopers for resolution, and PriceWaterhouseCoopers shall be given access to all materials and information reasonably requested by it for such purpose. The rules and procedures to be followed by PriceWaterhouseCoopers in resolving the matters in dispute shall be determined by PriceWaterhouseCoopers in its discretion, provided however for greater certainty that PriceWaterhouseCoopers shall not be permitted to redefine EBITDA. PriceWaterhouseCoopers' determination of all such matters shall be final and binding on both parties and shall not be subject to appeal by either party. The fees and expenses of PriceWaterhouseCoopers shall be borne equally by the parties. The Closing Financial Statements shall be modified to the extent required to give effect to PriceWaterhouseCoopers' determination and shall be deemed to have been approved as of the date of such determination.

\$2 54

2.5 Purchase Price Adjustment.

- (a) For the purpose of this Agreement, "Net Working Capital" means current assets (exclusive of cash) less current liabilities (other than the current portion of bank indebtedness and notes payable). If the sum of the Net Working Capital figure shown on the Lucas Closing Balance Sheet and the Net Working Capital figure shown on the Lucas PR Closing Balance Sheet (the "Total Net Working Capital") is less than \$800,000, the Purchase Price payable for the Purchased Shares and the Purchased Membership Rights shall be decreased by an amount equal to the difference between \$800,000 and the Total Net Working Capital. If the Total Net Working Capital is greater than \$800,000, the Purchase Price payable for the Purchased Shares and the Purchased Membership Rights shall be increased by an amount equal to the difference between \$800,000 and the Total Net Working Capital.
- On the Closing Date, the Vendor shall provide to Purchaser a certificate of the (b) President of the Vendor certifying the total Indebtedness (exclusive of Indebtedness in the amount of \$95,000 for the purchase of equipment from Vijuk Equipment, Inc.) and the total cash balances (comprised of cash balances plus checks that have been deposited with the bank which have not cleared and for which value has not been given less checks written which have not cleared) of Lucas and Lucas PR as of the Effective Date ("Closing Cash Balance") (the "Closing Certifications"). The Closing Certifications shall have attached as supporting schedules bank statements as of May 31, 2003 identifying such cash balances and Indebtedness amounts and a reconciliation of such bank statement balances to the balances on the Closing Certifications. If the sum of the total Indebtedness of Lucas and Lucas PR shown on the Closing Certifications (the "Closing Indebtedness") is greater than \$2,750,000, the Purchase Price payable both for the Purchased Shares and the Purchased Membership Rights shall be decreased by an amount equal to the difference between \$2,750,000 and the Closing Indebtedness. If the Closing Indebtedness is less than \$2,750,000, the Purchase Price shall be increased by an amount equal to the difference between \$2,750,000 and the Closing Indebtedness. In the event the sum of the Closing Cash Balances on the Closing Certifications is greater than \$260,000, then the Purchase Price payable shall be increased by the amount by which the Closing Cash Balance exceeds \$260,000. In the event the Closing Cash Balance is less than \$260,000, then the Purchase Price payable shall be decreased by the amount by which the Closing Cash Balance is less than \$260,000.
- (c) Upon completion of the Closing Financial Statements, Purchaser shall notify Vendor of any discrepancies in the amount of the Closing Cash Balance or Closing Indebtedness as reflected on the Closing Certifications and the Closing Financial Statements. In the event that any such discrepancies exist, the parties agree to resolve such differences in accordance with the procedures set forth in Section 2.4, with the Purchase Price to be adjusted accordingly.

- (d) In the event that after adjusting the Purchase Price pursuant to Sections 2.5(a), 2.5(b) and 2.5(c) hereof there is a reduction in the Purchase Price, such amount shall be deducted from the Promissory Note. If the reduction in the Purchase Price is greater than the Promissory Note, such difference shall forthwith be paid by the Vendor to the Purchaser by certified check or banker's draft to or to the order of the Purchaser. In the event that after adjusting the Purchase Price pursuant to Sections 2.5(a), and 2.5(b) hereof there is an increase in the Purchase Price, such increase shall be added to the Purchase Price at the Time of Closing. In the event that after adjusting the Purchase Price pursuant to Section 2.5(c) hereof there is an increase in the Purchase Price, such increase shall be forthwith be paid by the Purchaser to the Vendor by certified check or banker's draft to or to the order of the Vendor.
- 2.6 Payout of Promissory Note. The outstanding principal amount of the Promissory Note may be adjusted from time to time in accordance with Section 2.5.
 - (a) If the Purchaser has not made any Claim against the Vendor under this Agreement within 180 days from the Closing Date ("Claim Period"), the Purchaser shall pay the Promissory Note, as adjusted pursuant to Section 2.5, to the Vendor on the first Business Day following the expiration of the Claim Period.
 - (b) If the Purchaser has made a Claim or Claims against the Vendor under this Agreement within the Claim Period and the Vendor and the Purchaser have agreed in writing to the settlement of such Claims, the Purchaser shall pay the outstanding principal of the Promissory Note, as adjusted pursuant to Section 2.5, less the amount of such settled Claims, to the Vendor on the first Business Day following the expiration of the Claim Period. Any written settlement of a Claim or Claims between the Vendor and the Purchaser during the Claim Period shall have the effect of reducing the amount of outstanding principal on the Promissory Note by the amount of such settlement.
 - (c) If the Purchaser and the Vendor have not agreed to the settlement of all Claims, then on the first business day after the expiration of the Claim Period:
 - (i) the Purchaser shall pay the amount of the Promissory Note then outstanding which in the opinion of the Purchaser is needed to satisfy such outstanding Claims by wire transfer to an escrow agent mutually acceptable to the parties (the "Escrow Agent"), in trust, which amount shall be held in escrow by the Escrow Agent pursuant to the terms of the Escrow Agreement to be entered into by the Vendor, the Purchaser and the Escrow Agent, on substantially the same terms as the draft attached hereto as Schedule 2.6 (the "Escrow Agreement"); and

(ii) the Purchaser shall pay to the Vendor an amount equal to the amount of the Promissory Note then outstanding less the amount paid to the Escrow Agent pursuant to Section 2.6(c)(i).

Upon completion of the payments in Sections 2.6(a), (b) and (c) above, the Promissory Note shall be and shall be deemed to have been paid in full and the Vendor shall return to the Purchaser the original copy of the Promissory Note.

2.7 Tollgate Taxes. To the extent that the amount of Tollgate Taxes (and any associated interest and penalties that have accrued thereon) owed by Lucas PR exceeds the sum of \$100,000, such excess amount upon the demand of the Purchaser shall be promptly paid by the Vendor to the Purchaser in immediately available funds.

3. REPRESENTATIONS AND WARRANTIES OF THE VENDOR AND THE SHAREHOLDER

The Vendor and the Shareholder jointly and severally represent and warrant to the Purchaser as follows and acknowledge that the Purchaser is relying on such representations and warranties in connection with its purchase of the Purchased Shares and the Purchased Membership Rights:

- 3.1 Organization and Status Lucas. Lucas is validly existing in good standing under the laws of the State of Maryland. Lucas is duly registered, licensed or qualified to carry on business under the laws of the State of Maryland being the only jurisdiction in which the nature of the Business makes such registration, licensing or qualification necessary.
- 3.2 Organization and Status Lucas PR. Lucas PR is validly existing in good standing under the laws of Delaware. Lucas PR is duly registered, licensed or qualified to carry on business under the laws of Puerto Rico and Maryland, being the only jurisdictions in which it carries on business.
- Company Power and Authorization Lucas. Lucas has the necessary power and capacity to enter into this Agreement and to perform its obligations hereunder, to own and lease its property and assets and to carry on the Business as now being conducted by it. This Agreement has been duly authorized by Lucas. Each of the agreements, contracts and instruments required by this Agreement to be delivered by Lucas at the Time of Closing has been duly authorized by Lucas. This Agreement has been duly executed and delivered by Lucas and is a legal, valid and binding obligation of Lucas, enforceable against Lucas by the Purchaser in accordance with its terms. At the Time of Closing, each of the agreements, contracts and instruments required by this Agreement to be delivered by Lucas will be duly executed and delivered by Lucas and will be valid and binding obligations of Lucas, enforceable in accordance with their respective terms.
- 3.4 Corporate Power and Authorization Lucas PR. Lucas PR has the corporate power and capacity to enter into this Agreement and to perform its obligations hereunder, to own and lease its property and assets and to carry on the Business as now being conducted by it. This Agreement has been duly authorized by Lucas PR. Each of the agreements, contracts and instruments required by this Agreement to be delivered by

Lucas PR at the Time of Closing has been duly authorized by Lucas PR. This Agreement has been duly executed and delivered by Lucas PR and is a legal, valid and binding obligation of Lucas PR, enforceable against Lucas PR by the Purchaser in accordance with its terms. At the Time of Closing, each of the agreements, contracts and instruments required by this Agreement to be delivered by Lucas PR will be duly executed and delivered by Lucas PR and will be valid and binding obligations of Lucas PR, enforceable in accordance with their respective terms.

- 3.5 Membership Rights Lucas. The authorized capital of Lucas consists of membership rights, of which 100% (and not less than 100%) are owned by the Vendor as the beneficial owner of record thereof, with good and valid title thereto, free and clear of all Encumbrances.
- 3.6 Authorized and Issued Capital Lucas PR. The authorized capital stock of Lucas PR consists of 3,000 shares, of which 463 shares (and no more) have been duly issued and are outstanding as fully paid and non-assessable. All of such issued and outstanding shares of Lucas PR are owned by the Vendor as the beneficial owner of record thereof, with good and valid title thereto, free and clear of all Encumbrances.
- 3.7 No Other Agreements to Purchase Lucas. No person other than the Purchaser has any written or oral agreement or option or any right or privilege (whether by law, preemptive or contractual) capable of becoming an agreement or option for the purchase or acquisition from the Vendor of any of the Purchased Membership Rights.
- 3.8 No Other Agreements to Purchase Lucas PR. No person other than the Purchaser has any written or oral agreement or option or any right or privilege (whether by law, preemptive or contractual) capable of becoming an agreement or option for the purchase or acquisition from the Vendor of any of the Purchased Shares.
- 3.9 No Options. No person has any agreement or option or any right or privilege (whether by law, pre-emptive or contractual) capable of becoming an agreement, including convertible securities, warrants or convertible obligations of any nature, for the purchase, subscription, allotment or issuance of any unissued shares, membership interests or other securities of Lucas or Lucas PR.
- 3.10 Ownership of Purchased Shares and the Purchased Membership Rights. The Vendor is the legal and beneficial owner of record of the Purchased Shares and the Purchased Membership Rights, with good and valid title thereto, free and clear of all Encumbrances and, without limiting the generality of the foregoing, none of the Purchased Shares or the Purchased Membership Rights is subject to any voting trust, shareholder agreement or voting agreement. Upon completion of the transaction contemplated by this Agreement, all of the Purchased Shares and the Purchased Membership Rights will be owned by the Purchaser as the beneficial owner of record, with a good and valid title thereto (except for such Encumbrances as may have been granted by the Purchaser).

- 3.11 No Subsidiaries. Neither Lucas nor Lucas PR owns or has any agreements of any nature to acquire, directly or indirectly, any shares in the capital of or other equity or proprietary interests in any person and neither Lucas nor Lucas PR has any agreements to acquire or lease any other business operations.
- 3.12 No Violation. Except as set forth in Schedules 3.24A and 3.24B and except for any consents not obtained with respect to the Allfirst Indebtedness neither the execution and delivery of this Agreement nor the consummation of the transactions contemplated hereby:
 - (a) will violate or conflict with any applicable law, statute, ordinance, regulation or rule, or any judgment, decree, order or award of any court, governmental body or arbitrator having jurisdiction over the Vendor, Lucas or Lucas PR;
 - (b) will require any authorization, consent, approval, exemption or other action by, or notice to, any governmental agency, authority, regulatory body or court;
 - subject to obtaining the consents referred to in Schedules 3.24A and 3.24B, will violate or conflict with, or constitute a default (or will constitute an event which, with notice or lapse of time, or both, would constitute a default) under any Contract to which the Vendor, Lucas or Lucas PR is a party or by which any of them or any of their assets or properties may be bound or affected;
 - (d) will result in the termination of, any additional payment under, or the change in any terms of, or accelerate the performance of any obligation required by (or give rise to a right of any party thereto, exercisable on notice or otherwise, to terminate, to require that any additional payment be made under, to change any terms of, or to accelerate the performance of any obligation under) any Contract to which the Vendor, Lucas or Lucas PR is a party or by which any of them or any of their assets or properties may be bound or affected;
 - (e) will result in the creation of any Encumbrance upon any of the property or assets of the Vendor, Lucas or Lucas PR; or
 - (f) will violate or conflict with any Licence held by Lucas or Lucas PR or which is necessary to the ownership of the Purchased Shares or the Purchased Membership Interest or the operation of the Business.
- 3.13 Business of Lucas and Lucas PR. The Business is the only business operation carried on by Lucas and Lucas PR, and the property and assets owned and leased by Lucas and Lucas PR are sufficient to carry on the Business consistent with past practice. The Vendor and the Shareholder make no representation and warranty regarding the condition of the equipment used in the operation of the Business. During the two years preceding the date of this Agreement, there has not been any cessation of operations of more than one day of the Business by either Lucas or Lucas PR due to inadequate maintenance of any of the property and assets owned and used by Lucas or Lucas PR. With the exception of inventory in transit, all the tangible assets of Lucas and Lucas PR are situate at the locations set out in Schedule 3.13.

- 3.14 Title to Personal Property. The property and assets of Lucas and Lucas PR are owned by Lucas or Lucas PR, as the case may be, as the absolute and beneficial owner thereof with a good and valid title thereto, free and clear of all Encumbrances other than Permitted Encumbrances. Lucas or Lucas PR have, and at the Time of Closing will have, the exclusive right to possess, use, occupy and dispose of all of its property and assets, subject only to the rights of the other parties to the Contracts listed in any Schedule to this Agreement. Schedule 3.14 lists all of the equipment of the Lucas and Lucas PR having a net book value of greater than \$10,000 used to carry on the Business. The property and assets of Lucas and Lucas PR comprise all of the assets used to carry on the Business.
- Location of Real Property. Schedule 3.15 sets forth the municipal address and location 3.15 of all the real property which is leased by Lucas and Lucas PR (the "Leased Property"). Neither Lucas nor Lucas PR own or lease and neither has agreed to acquire or lease any real property or interest in real property other than the Leased Property. To the knowledge of the Vendor, the Shareholder, Lucas and Lucas PR, all buildings, structures, improvements and appurtenances (including without limitation, the HVAC systems) situated on the Leased Property are in good operating condition and in a state of good maintenance and repair, having regard to their age, are adequate and suitable for the purposes for which they are currently being used and Lucas and Lucas PR have adequate rights of ingress and egress for the operation of the Business in the Ordinary Course. To the knowledge of the Vendor, there is nothing owing in respect of the Leased Property by Lucas or Lucas PR to any municipal corporation or to any other corporation or commission owning or operating a public utility for gas, water, electrical power or energy, steam or hot water, or for the use thereof, other than current accounts in respect of which the payment due date has not yet passed. To the knowledge of the Vendor, the Shareholders, Lucas and Lucas PR, the Leased Property (including all buildings, improvements and fixtures, and without limitation, the HVAC systems) is fit for its present use, and there are no repairs, replacements or maintenance which, in the aggregate, exceed \$50,000, which are necessary or advisable and, without limiting the generality of the foregoing, there are no repairs to, or replacements of, the roof or the mechanical, electrical, heating, ventilating, air-conditioning, plumbing or drainage equipment or systems which are necessary or advisable, and the Leased Property is not currently undergoing any alteration or renovation nor is any such alteration or renovation contemplated. Neither Lucas nor Lucas PR is a party to any lease or agreement in the nature of a lease in respect of any real property, whether as lessor or lessee, other than the leases (the "Leases") described in Schedule 3.15 relating to the Leased Property. Schedule 3.15 sets out the parties to each of the Leases, their dates of execution and expiry dates, and options to renew, the location of the leased lands and premises and the rent payable thereunder. Except as described in Schedule 3.15, Lucas or Lucas PR occupy the Leased Property and has the exclusive right to occupy and use the Leased Property. Each of the Leases is in good standing and in full force and effect without amendment thereto other than as described in Schedule 3.15, and neither Lucas, Lucas PR nor any other party thereto is in breach of any covenants, conditions or obligations contained therein. The Vendor has provided a true copy of each Lease to the Purchaser.

- 3.16 Inventories. Except as described in Schedule 3.16, the inventories of Lucas and Lucas PR do not include any items exceeding \$10,000 in book value in the aggregate which are over one year old, below standard quality or of a quality or quantity not useable or saleable in the Ordinary Course of Business, the value of which has not been written down on its books of account to net realizable market value. The inventory levels of Lucas and Lucas PR have been maintained at such amounts as are required for the operation of the Business as previously conducted, and such inventory levels are adequate therefor.
- 3.17 Accounts Receivable. All accounts receivable, book debts and other debts due or accruing to Lucas and Lucas PR: (a) arise from bona fide transactions between either Lucas or Lucas PR and their respective Customers; (b) are not subject to any counterclaims or setoffs; (c) have not been compromised; and (d) are due and payable in accordance with their stated terms.
- Intellectual Property. Schedule 3.18 sets out all of the Intellectual Property (including 3.18 particulars and status of registration or application for registration) and all licences, registered user agreements and other Contracts which comprise or relate to Intellectual Property. There is no material Intellectual Property other than shrink wrap and off-theshelf software licences. The Intellectual Property is sufficient to conduct the Business. Either Lucas or Lucas PR is the legal and beneficial owner of the Intellectual Property, free and clear of all Encumbrances (except for the Intellectual Property listed in Schedule 3.18 which is identified as being licensed to either Lucas or Lucas PR), and is not a party to or bound by any Contract or any other obligation whatsoever that limits or impairs its ability to sell, transfer, assign or convey, or that otherwise affects, the Intellectual Property. No person has been granted any interest in or right to use all or any portion of the Intellectual Property, except as set out in Schedule 3.18. The conduct of the Business does not infringe upon the industrial or intellectual property rights, domestic or foreign, of any other person. The Vendor has provided to the Purchaser a true and complete copy of all Contracts and amendments thereto which comprise or relate to the Intellectual Property.
- 3.19 Insurance. Schedule 3.19 sets out all insurance policies (specifying the insurer, the amount of the coverage, the type of insurance, the policy number, the policy term, the deductible, the premium and any pending claims thereunder) currently maintained by both Lucas and/or Lucas PR on their property, assets, personnel and all other insurable liabilities and true and complete copies of the most recent inspection reports, if any, received from insurance underwriters or others as to the condition of the property and assets of Lucas and Lucas PR. Neither Lucas nor Lucas PR is in default with respect to any of the provisions contained in any such insurance policy and has not failed to give any notice or present any claim under any such insurance policy in a due and timely fashion. The Vendor has provided to the Purchaser a true copy of each insurance policy referred to in Schedule 3.19.

- 3.20 No Expropriation. No property or asset of Lucas or Lucas PR has been taken or expropriated by any federal, provincial, state, territorial, municipal or other authority nor has any notice or proceeding in respect thereof been given or commenced nor is the Vendor, Lucas, Lucas PR or the Shareholder aware of any intent or proposal to give any such notice or commence any such proceeding.
- Agreements and Commitments. Other than related party transactions as disclosed in 3.21 the notes to the Lucas Financial Statements and the Lucas PR Financial Statements and except as disclosed on Schedules 3.15, 3.18, 3.19, 3.21, 3.23, 3.36, 3.40B, or 3.41, neither Lucas nor Lucas PR is a party to or bound by any Contract relating to the property, assets or operations of Lucas, Lucas PR or the Business. Schedules 3.15, 3.18, 3.19, 3.21, 3.23, 3.36, 3.40B, and 3.41 contain a true and complete list and description of all Contracts to which Lucas or Lucas PR is a party. Each of Lucas, Lucas PR and the Vendor has performed all of the obligations required to be performed by it and is entitled to all benefits under, and is not in default or alleged to be in default in respect of, any Contract relating to the Business to which it is a party or by which it is bound; all such Contracts are in good standing and in full force and effect, and no event, condition or occurrence exists which, after notice or lapse of time or both, would constitute a default under any of the foregoing. The Vendor has provided to the Purchaser a true and complete copy of each Contract listed or described on Schedule 3.21 and all Contracts relating to the related party transactions as disclosed in the notes to the Lucas Financial Statements and the Lucas PR Financial Statements. Neither Lucas nor Lucas PR is a party to any oral agreement, indenture, contract, lease, license, option, instrument or commitment ("Oral Contract") which is in excess of \$50,000 individually, and the Oral Contracts of Lucas and Lucas PR do not exceed \$100,000 in the aggregate.
- 3.22 Compliance With Laws. Each of Lucas and Lucas PR conducts and has conducted the Business in compliance with all applicable laws, regulations, by-laws, ordinances, regulations, rules, judgments, decrees and orders of each jurisdiction in which the Business is or was carried on.
- 3.23 Licenses. Schedule 3.23 sets out a complete and accurate list of all licenses, permits, approvals, consents, certificates, registrations and authorizations (whether governmental, regulatory or otherwise) (the "Licenses") held by or granted to Lucas or Lucas PR, and there are no other licenses, permits, approvals, consents, certificates, registrations or authorizations necessary to carry on the Business or to own or lease any of the property or assets utilized by Lucas or Lucas PR, other than those described in Section 6.3. Each License is valid, subsisting and in good standing and neither Lucas nor Lucas PR is in default or breach of any License. To the knowledge of the Vendor, the Shareholder, Lucas and Lucas PR, there is not any matter, condition or set of facts which might reasonably indicate that a proceeding is pending or threatened to revoke or limit any License. The Vendor has provided a true and complete copy of each License and all amendments thereto to the Purchaser.

- 3.24 Consents and Approvals. Except for the consents and approvals set out in Schedules 3.24A and 3.24B, no authorization, consent or approval of, or filing with or notice to:
 - (a) any governmental agency, regulatory body or court;
 - (b) any law, statute, ordinance, regulation or rule; or
 - (c) any party to a Contract to which Lucas, Lucas PR or the Vendor (in respect of Lucas, Lucas PR or the Business), is a party or by which it is bound,

is required in connection with the execution, delivery and performance of this Agreement by Lucas, Lucas PR and the Vendor or the sale of the Purchased Shares and Purchased Membership Interests hereunder. Notwithstanding the foregoing, the Vendor as of the date hereof has not filed with the Puerto Rico Office of Industrial Tax Exemption a notice and request for authorization for transfer of stock and change in control of exempted business, and any consents that may be required from the holder of the Allfirst Indebtedness have not been obtained.

- Financial Statements. Except as set out in Schedule 3.25, the Lucas Financial 3.25 Statements and the Lucas PR Financial Statements have been prepared in accordance with GAAP applied on a basis consistent with prior periods, and present fairly the assets, liabilities (whether accrued, absolute, or contingent) and financial condition of Lucas and Lucas PR as at the respective dates of the Lucas Financial Statements and the Lucas PR Financial Statements and the sales, earnings and results of operations of Lucas and Lucas PR for the respective periods covered by the Lucas Financial Statements and the Lucas PR Financial Statements. Schedule 3.25A contains the unaudited, unconsolidated financial statements of Lucas as at and for the 5 months ended May 31, 2003 (the "Lucas May 2003 Financial Statements") and the unaudited, unconsolidated financial statements of Lucas PR as at and for the 6 months ended May 31, 2003 (collectively, the "Lucas PR May 2003 Financial Statements") Except as set out in Schedule 3.25A, the Lucas May 2003 Financial Statements and the Lucas PR May 2003 Financial Statements have been prepared in accordance with GAAP applied on a basis consistent with prior periods, and present fairly the assets, liabilities (whether accrued, absolute, or contingent) and financial condition of Lucas and Lucas PR as at the respective dates of the Lucas May 2003 Financial Statements and the Lucas PR May 2003 Financial Statements and the sales, earnings and results of operations of Lucas and Lucas PR for the respective periods covered by the Lucas May 2003 Financial Statements and the Lucas PR May 2003 Financial Statements.
- 3.26 Financial Books and Records. The books and records of Lucas and Lucas PR have been maintained in accordance with good bookkeeping practice and fairly set out and disclose the financial position of Lucas and Lucas PR, respectively, as at the date hereof and all financial transactions of Lucas and Lucas PR, have been recorded in such books and records, consistent with past practices.

- 3.27 Corporate Records. The corporate records and minute books of Lucas and Lucas PR, complete copies of which have been previously provided to the Purchaser, contain complete and accurate minutes of all meetings of the directors, members and shareholders of Lucas and Lucas PR for which minutes were kept, respectively, held since the formation and incorporation of Lucas and Lucas PR respectively, all such meetings were duly called and held, the share certificate books, registers of shareholders, registers of transfers and registers of members, directors and officers of Lucas and Lucas PR, respectively, are complete and accurate and all exigible security transfer tax payable in connection with the transfer of any securities or interest of Lucas and Lucas PR has been duly paid. There are no resolutions of directors, members or shareholders except as contained in the minute books or as previously provided to Purchaser.
- 3.28 Absence of Changes. Except as set out in Schedule 3.28, since December 31, 2002 in the case of Lucas and since November 30, 2002 in the case of Lucas PR, Lucas and Lucas PR have carried on the Business and conducted their operations and affairs only in the Ordinary Course of Business and there has not been:
 - (a) any material adverse change in the condition (financial or otherwise), assets, liabilities, operations, earnings, business or prospects of Lucas, Lucas PR or the Business;
 - (b) any damage, destruction or loss (whether or not covered by insurance) affecting the property or assets of Lucas or Lucas PR;
 - (c) any obligation or liability (whether absolute, accrued, contingent or otherwise, and whether due or to become due) incurred by Lucas or Lucas PR, other than those incurred in the Ordinary Course of Business, or disclosed in the Lucas Financial Statements or Lucas PR Financial Statements;
 - (d) any payment, discharge or satisfaction of any Encumbrance, liability or obligation of Lucas or Lucas PR (whether absolute, accrued, contingent or otherwise, and whether due or to become due) other than payment of accounts payable, repayment of indebtedness in accordance with its terms and tax liabilities incurred in the Ordinary Course of Business;
 - (e) any declaration, setting aside or payment of any dividend or other direct or indirect distribution with respect to any shares in the capital of Lucas or Lucas PR or any direct or indirect redemption, purchase or other acquisition of any such shares;
 - (f) any issuance or sale by Lucas or Lucas PR, or any Contract entered into by Lucas or Lucas PR, for the issuance or sale by Lucas or Lucas PR of any shares or interest in the capital of or securities convertible into or exercisable for shares or interest in the capital of Lucas or Lucas PR;

- (g) any labor activity adversely affecting Lucas or Lucas PR;
- (h) any licence, sale, assignment, transfer or disposition of any property or assets of Lucas or Lucas PR, other than sales of inventory to customers in the Ordinary Course of Business;
- (i) any write-down of the value of any inventory or any write-off as uncollectible of any accounts or notes receivable or any portion thereof of Lucas or Lucas PR in amounts exceeding \$10,000 in each instance or \$40,000 in the aggregate;
- (j) any cancellation of any debts or claims or any amendment, termination or waiver of any rights of value to Lucas or Lucas PR in amounts exceeding \$10,000 in each instance or \$40,000 in the aggregate;
- (k) other than as disclosed in Schedule 3.36 or 3.38A, any general increase in the compensation of employees of Lucas or Lucas PR (including, without limitation, any increase pursuant to any Employee Plan or commitment);
- (l) other than as disclosed in Schedule 3.36 or 3.38A, any increase in any compensation or bonus (including, without limitation, any increase pursuant to any Employee Plan or commitment) payable to any officer, employee, consultant or agent of Lucas or Lucas PR having an annual salary or remuneration in excess of \$50,000, or the execution of any employment contract with any officer or employee having an annual salary or remuneration in excess of \$50,000, or the making of any loan to, or engagement in any transaction with, any employee, officer or director of Lucas or Lucas PR;
- (m) any capital expenditures or commitments of Lucas or Lucas PR in excess of \$40,000 in the aggregate;
- (n) any forward purchase commitments, in excess of the requirements of Lucas or Lucas PR for normal operating inventories or at prices higher than the current market prices or beyond 60 days from the date of this Agreement;
- (o) any forward sales commitments other than in the Ordinary Course of Business or beyond 60 days from the date of this Agreement, or any failure to satisfy any accepted order for goods or services;
- (p) any change in the accounting or tax practices followed by Lucas or Lucas PR;
- (q) any change adopted by Lucas or Lucas PR in its depreciation or amortization policies or rates;

- (r) other than as disclosed in Schedule 3.40B, any change in the credit terms offered to customers of, or by suppliers to, Lucas or Lucas PR; or
- (s) authorized or agreed or otherwise become committed to do any of the foregoing.
- Taxes. Except as set out Schedule 3.29, each of Lucas and Lucas PR has duly completed 3.29 and filed on a timely basis all tax returns, declarations, elections and filings required to be filed by it and has paid all taxes which are due and payable, whether in respect of income, sales, use, payroll, (other than those associated with employees bonuses for 2002) property, business taxes or any other taxes and all assessments, reassessments, governmental charges, penalties, interest and fines due and payable by it. Each of Lucas and Lucas PR has made adequate provision on their books and records (in accordance with GAAP) for taxes payable by it for the current period and any previous period for which tax returns are not yet required to be filed. There are no actions, suits, proceedings, investigations or claims pending or, to the knowledge of the Vendor, the Shareholder, Lucas and Lucas PR, threatened against, Lucas or Lucas PR in respect of taxes, governmental changes or assessments, nor are any material matters under discussion with any governmental authority relating to taxes, governmental changes or assessments asserted by any such authority. Lucas and Lucas PR have withheld from each payment made to any of its past or present employees, officers or directors, the amount of all taxes and other deductions required to be withheld therefrom and has paid the same to the proper tax or other receiving officers within the time required under any applicable legislation. Lucas and Lucas PR have remitted to the appropriate tax authority when required by law to do so all amounts collected by it on account of applicable legislation. Neither Lucas nor Lucas PR has requested any extension of time within which to file any return and neither Lucas nor Lucas PR has filed any waiver or other document extending the period during which an assessment, reassessment or other form of document assessing liability for tax, interest or penalties under applicable tax legislation in respect of any tax year could be issued. The financial records and tax returns of Lucas and the financial records and tax returns for Lucas PR have not been audited by the Internal Revenue Service or other applicable tax authorities since 1998. The maximum amount of unpaid tollgate taxes ("Tollgate Taxes") owed by Lucas PR is \$100,000 (exclusive of interest and penalties).
- 3.30 Litigation and Other Proceedings. Except as described in Schedule 3.30 and except for the Excluded Litigation described in Schedule 10.11, there is no court, administrative, regulatory or similar proceeding (whether civil, quasi-criminal or criminal), arbitration or other dispute resolution procedure, investigation or inquiry by any governmental, administrative, regulatory or similar body, or any similar matter or proceeding (collectively, "proceedings") against or involving Lucas or Lucas PR (whether in progress or threatened). No event has occurred which might give rise to any proceedings and there is no judgment, decree, injunction, rule, award or order of any court, government department, board, commission, agency, arbitrator or similar body outstanding against Lucas or Lucas PR.

- 3.31 Accounts and Attorneys. Schedule 3.31 sets forth a true and complete list showing: (a) the name of each bank, trust company or similar institution in which Lucas and Lucas PR has accounts or safe deposit boxes, the number or designation of each such account and safe deposit box and the names of all persons authorized to draw thereon or to have access thereto; and (b) the name of each person, firm, corporation or business organization holding a general or special power of attorney from Lucas or Lucas PR and a summary of the terms thereof.
- 3.32 Directors and Officers. Schedule 3.32 sets forth the names and titles of all the officers and directors of Lucas and Lucas PR.
- 3.33 Dividends. Except as set out in Schedule 3.33, since December 31, 2001 in the case of Lucas and since November 30, 2001 in the case of Lucas PR, neither Lucas nor Lucas PR has, directly or indirectly, declared or paid any dividends or declared or made any other distribution on any of its shares of any class and has not, directly or indirectly, redeemed or purchased or otherwise acquired any of its outstanding shares of any class or agreed to do so.
- December 31, 2002 nor Lucas PR since November 30, 2002 has made any payment or loan to, or borrowed any monies from or is otherwise indebted to, any officer, director, employee or shareholder of the Vendor, Lucas, Lucas PR or any other person who is an Affiliate of the Vendor, Lucas or Lucas PR, except as disclosed in the Lucas Financial Statements and the Lucas PR Financial Statements and except for usual employee reimbursements and compensation paid in the Ordinary Course of Business. Except as described in Schedules 3.34 or 3.36 or as disclosed in the notes to the Lucas Financial Statements and the Lucas PR Financial Statements and except for Contracts of employment, neither Lucas nor Lucas PR is a party to any Contract or Oral Contract with any officer, director, employee, shareholder of the Vendor, Lucas, Lucas PR or any other person who is an Affiliate of the Vendor, Lucas or Lucas PR. No officer, director or shareholder of the Vendor, Lucas or Lucas PR and no person who is an Affiliate of one or more of such individuals:
 - (a) owns, directly or indirectly, any interest in (except for shares representing less than one per cent of the outstanding shares of any class or series of any publicly traded company), or is an officer, director, employee or consultant of, any person which is, or is engaged in business as, a competitor of the Business, Lucas or Lucas PR or a lessor, lessee, supplier, distributor, sales agent or customer of the Business, Lucas or Lucas PR;
 - (b) owns, directly or indirectly, in whole or in part, any property that Lucas or Lucas PR uses in the operation of the Business; or

- has any cause of action or other claim whatsoever against, or owes any amount to, Lucas or Lucas PR in connection with the Business, except for any liabilities reflected in the Lucas Financial Statements and the Lucas PR Financial Statements and claims in the Ordinary Course of Business such as for accrued vacation pay and accrued benefits under the Employee Plans.
- Environmental. Lucas, Lucas PR, the Business, the Leased Property (while in the 3.35 possession or control of Lucas or Lucas PR) and all operations thereon have been and are to the knowledge of Vendor, and the Shareholder, in compliance with all applicable Environmental Laws. To the knowledge of the Vendor and the Shareholder, neither Lucas, Lucas PR, nor the Vendor has used or permitted to be used, except in compliance with all Environmental Laws, any of its properties (including the Leased Property) or facilities or any property or facility which it previously owned or leased, to generate, manufacture, process, distribute, use, treat, store, dispose of, transport or handle any Hazardous Substance. To the knowledge of the Vendor and the Shareholder, neither Lucas, Lucas PR, nor the Vendor has caused or permitted, nor has there been any release, omission, spill or discharge (which was not handled in compliance with all applicable Environmental Laws) of any Hazardous Substance on, in, around, from or in connection with any of its properties (including any of the Leased Property) or assets or their use, or any property or facility which it previously owned or leased, or any such release on or from a facility owned or operated by any third party but with respect to which Lucas or Lucas PR is or may reasonably be alleged to have liability, including, without limiting the foregoing, liability under CERCLA or any federal, state, territorial or local law with respect to off-site disposal of Hazardous Substances or other waste. To the knowledge of the Vendor and the Shareholder, all Hazardous Substances and all other wastes and other materials and substances used in whole or in part by Lucas or Lucas PR have been disposed of, treated and stored by Lucas and Lucas PR in compliance with all Environmental Laws. Neither Lucas nor Lucas PR has ever received any notice of, or been prosecuted for, non-compliance with any Environmental Laws, and neither the Vendor, Lucas nor Lucas PR has settled any allegation of non-compliance prior to prosecution. There are no notices, orders or directions relating to environmental matters requiring, or notifying the Vendor, Lucas or Lucas PR that it is or may be responsible for, any containment, clean-up, remediation or corrective action, or any work, repairs, construction or capital expenditures to be made under Environmental Laws with respect to the business or any property of Lucas or Lucas PR.
- 3.36 Employee Plans. Schedule 3.36 identifies each bonus, stock purchase, profit sharing, stock option, deferred compensation, severance or termination pay, insurance, medical, hospital, dental, vision care, drug, sick leave, disability, salary continuation, legal benefits, unemployment benefits, vacation, incentive or other compensation plan or arrangement or other employee benefit which is maintained, or otherwise contributed to or required to be contributed to, by Lucas or Lucas PR for the benefit of employees or former employees of Lucas or Lucas PR (the "Employee Plans"). Except for the 401(k) plans described in Schedule 3.36, neither Lucas nor Lucas PR has established any retirement, pension or any other plan which is subject to ERISA, including without limitation any employee pension benefit plan or employee welfare benefit plan subject to ERISA. The Employee Plans are the only benefit plans existing in respect of Employees.

True, correct and complete copies of all written Employee Plans have been provided to the Purchaser. The Employee Plans are duly registered where required by, and are in good standing under, all applicable laws and all applicable regulations and policies thereunder. All required employer and employee contributions relating to the Employees under the Employee Plans have been made, the respective fund or funds established under the Employee Plans are funded in accordance with applicable laws and the rules of the Employee Plans and no past service funding liabilities relating to the Employees exist thereunder. The 401(k) plans described in Schedule 3.36 meet, and since inception have met, the requirements of, and have been operated and administered in compliance with all applicable laws, regulations and rule, including, without limitation, ERISA and the Code.

- 3.37 Collective Agreements. Except as described in Schedule 3.37A, neither Lucas nor Lucas PR has made any Contracts with any labor union or employee association nor made commitments to or conducted negotiations with any labor union or employee association with respect to any future agreements and, except as set out in Schedule 3.37A, neither the Vendor, the Shareholder, Lucas nor Lucas PR are aware of any past or current attempts to organize or establish any labor union or employee association with respect to any employees of Lucas or Lucas PR, nor is there any certification of any such union with regard to a bargaining unit. Schedule 3.37B describes all work stoppages and strikes (legal or otherwise) that the Business has experienced in the past five years, including the dates and length of each such occurrence.
- Employees. Schedule 3.38A contains a complete and accurate list as of March 31, 2003 3.38 of the names of all individuals who are full-time, part-time or casual employees or individuals engaged on contract to provide employment services or sales or other agents or representatives of Lucas and Lucas PR as of the date of this Agreement (the "Employees") specifying the length of hire, title or classification and rate of salary or hourly pay and commission or bonus entitlements (if any) for each such Employee. Schedule 3.38B lists all Employees on Schedule 3.38A, including those on lay-off who have been absent continually from work for a period in excess of one month, as well as the reason for their absence. Except as described in Schedules 3.19, 3.38C or 10.11, there are no complaints, grievances, claims, work orders, investigations or charges outstanding or claims or possible claims (including, without limitation, claims relating to employment practices including wrongful dismissal, wrongful termination, harassment, and discrimination), or to the knowledge of the Vendor, the Shareholder, Lucas and Lucas PR, anticipated, nor are there any orders, decisions, directions or convictions currently registered or outstanding by any tribunal or agency against or in respect of Lucas or Lucas PR under or in respect of any Employment Legislation. Lucas and Lucas PR are in compliance with Employment Legislation. Except as described in Schedules 3.19, 3.38G or 10.11, to the knowledge of the Vendor, Lucas and Lucas PR, no present or former employee of Lucas or Lucas PR has any claim against Lucas or Lucas PR (whether under federal, state, territorial or provincial law, under an employment agreement or otherwise) on account of or for:

- (a) overtime pay, wages or salary for any period, other than current payroll;
- (b) vacation, time off or pay in lieu of vacation or time off, other than vacation or time off (or pay in lieu thereof) earned in respect of the current fiscal year; or
- (c) any violation of any statute, ordinance or regulation relating to minimum wage or maximum hours of work.
- 3.39 Employee Accruals. All accruals for unpaid vacation pay (exclusive of Lucas, for which such accruals do not apply), premiums for unemployment insurance, health premiums, accrued wages, salaries and commissions and employee benefit plan payments have been reflected in the books and records of Lucas and Lucas PR.
- Customers and Suppliers. Schedule 3.40A sets out a true, correct and complete list of 3.40 (i) all the customers of Lucas and Lucas PR who purchased any products from Lucas or Lucas PR during the period commencing January 1, 2002 and ending February 28, 2003 ("Customers") and (ii) all suppliers of Lucas and Lucas PR from whom either Lucas or Lucas PR purchased supplies or services in the calendar year 2002 or from whom either Lucas or Lucas PR has purchased or contracted to purchase supplies or services during the period commencing January 1, 2002 and ending March 31, 2003 ("Suppliers"), and there has been no termination or cancellation of, and no modification or change in, the business relationship of Lucas or Lucas PR with any customer or supplier or group of customers or suppliers. Neither the Vendor, the Shareholder, Lucas nor Lucas PR has any knowledge that the benefits of any relationship with any of the customers or suppliers of Lucas or Lucas PR will not continue after the Closing Date in substantially the same manner as prior to the date of the Agreement. All rebates, discounts or allowances given to customers or suppliers of Lucas and/or Lucas PR are disclosed in Schedule 3.40B and have been fully paid or fully reserved for in the Lucas Financial Statements and Lucas PR Financial Statements, as the case may be, and have been accrued in the books and records of Lucas since December 31, 2002 and in the books and records of Lucas PR since November 30, 2002. Except as disclosed in Schedule 3.40B, there has been no material change in or relating to the provision of rebates, discounts and allowances given to customers or suppliers of Lucas since December 31, 2002 and Lucas PR since November 30, 2002.
- 3.41 Product Warranties. Schedule 3.41 is a complete list of all express, written warranties given to purchasers of products supplied or services provided by Lucas and Lucas PR. Except as disclosed in Schedule 3.41, there are no claims or to the knowledge of the Vendor, the Shareholder, Lucas or Lucas PR any threatened claims in respect of products previously sold to Customers of the Business which might lead to a complaint from a Customer which would result in the uncollectibility of an accounts receivable. To the knowledge of the Vendor, Schedule 3.41 sets forth a description of all product recalls by a customer during the last 5 years from a customer's distribution system or the marketplace, allegedly resulting from or relating to products produced in the Business including a description of the product, the client, an explanation of the reason for the recall and the expense incurred by Lucas and Lucas PR in connection with such recalls.

3.42 Product Liability. There is no action, suit, or proceeding by or before any court or governmental authority or agency pending or to the knowledge of the Vendor, the Shareholder, Lucas and Lucas PR threatened against or involving Lucas or Lucas PR relating to any product alleged to have been manufactured or sold by Lucas or Lucas PR and alleged to have been defective, or improperly designed or manufactured. None of the Vendor, the Shareholder, Lucas or Lucas PR has knowledge of any valid basis for any action or suit relating to any product manufactured or sold by Lucas or Lucas PR and alleged to have been defective or improperly designed or manufactured.

3.43 Undisclosed Liabilities.

To the knowledge of the Vendor, the Shareholder, Lucas or Lucas PR, Lucas and Lucas PR do not have any liabilities or obligations (whether absolute, accrued, contingent or otherwise) except:

- (a) as disclosed, reflected or reserved against in the Lucas Financial Statements and the Lucas PR Financial Statements;
- (b) as disclosed in the Schedules to this Agreement;
- (c) incurred in the Ordinary Course of Business since December 31, 2002 in the case of Lucas and since November 30, 2002 in the case of Lucas PR which, individually or in the aggregate, are not material to the Business, operations, affairs or financial conditions of Lucas or Lucas PR.
- 3.44 Accuracy. To the knowledge of the Vendor, the Shareholder, Lucas and Lucas PR, neither this Agreement nor any document or certificate to be provided by Lucas, Lucas PR, the Shareholder or the Vendor pursuant to this Agreement contains any untrue statement of a material fact or omits to state any material fact necessary to make any of the statements contained herein or therein not misleading.
- 4. REPRESENTATIONS AND WARRANTIES OF THE VENDOR, THE SHAREHOLDER, NICHOLAS J. KOLLMAN AND KEVIN J. KOLLMAN
- 4.1 Vendor. The Vendor and the Shareholder jointly and severally represent and warrant to the Purchaser as follows, and acknowledge that the Purchaser is relying on such representations and warranties in connection with the purchase of the Purchased Shares and Purchased Membership Rights:
 - (a) The Vendor is validly existing in good standing under the laws of Maryland, its jurisdiction of organization.
 - (b) The Vendor has the necessary power and capacity to enter into this Agreement and to perform its obligations hereunder. This Agreement has been duly authorized by the Vendor. Each of the agreements, contracts and instruments required by this Agreement to be delivered by the Vendor at the Time of Closing has been duly authorized by the Vendor. This Agreement has been duly executed and delivered by the Vendor and is a legal, valid and binding obligation of such

Vendor, enforceable against the Vendor by the Purchaser in accordance with its terms. At the Time of Closing, each of the agreements, contracts and instruments required by this Agreement to be delivered by such Vendor will be duly executed and delivered by such Vendor, and will be valid and binding obligations of such Vendor, enforceable in accordance with their respective terms.

- 4.2 Shareholder. The Shareholder represents and warrants to the Purchaser as follows and acknowledges that the Purchaser is relying on such representations and warranties in connection with its purchase of the Purchased Shares and the Purchased Membership Rights:
 - (a) Nicholas J. Kollman is the sole trustee of the Kevin J. Kollman Trust, and has the power, legal right and authority to enter into this Agreement and to do all such acts and things as are required hereunder to be done, observed and performed. The Shareholder is duly settled, validly existing and in good standing under the laws of the State of Maryland. This Agreement and all other contracts and instruments required by this Agreement to be delivered by the Shareholder at the Time of Closing have been duly authorized by the trustee of the Shareholder. This Agreement is a legal, valid and binding obligation of the Shareholder, enforceable against the Shareholder by the Purchaser in accordance with its terms. At the Time of Closing, each of the agreements, contracts and instruments required by this Agreement to be delivered by the Shareholder will be valid and binding obligations of the Shareholder, enforceable in accordance with their respective terms.
- 4.3 Nicholas J. Kollman and Kevin J. Kollman. Nicholas J. Kollman and Kevin J. Kollman represent and warrant to the Purchaser as follows and acknowledge that the Purchaser is relying on such representations and warranties in connection with its purchase of the Purchased Shares and the Purchased Membership Rights:
 - (a) each is an individual, the limited indemnity obligations set forth in Section 10.9 hereof are legal, valid and binding obligations of each individual, enforceable against each individual by the Purchaser in accordance with their terms, as limited by the provisions of Section 10.10.

5. REPRESENTATIONS AND WARRANTIES OF THE PURCHASER

The Purchaser represents and warrants to the Vendor and the Shareholder as follows and acknowledges and confirms that the Vendor and the Shareholder are relying on such representations and warranties in connection with the sale by the Vendor of the Purchased Shares and the Purchased Membership Rights:

- **Organization.** The Purchaser is a corporation validly existing in good standing under the laws of the State of Michigan.
- Corporate Power and Authorization. The Purchaser has the corporate power and capacity to enter into this Agreement and to perform its obligations hereunder. This Agreement and each of the agreements, contract and instruments required by this Agreement to be delivered by the Purchaser at the Time of Closing has been duly authorized by the Purchaser. This Agreement has been duly executed and delivered by the Purchaser and is a legal, valid and binding obligation of the Purchaser, enforceable against the Purchaser by the Vendor, the Shareholder, Lucas and Lucas PR in accordance with its terms. At the Time of Closing, each of the agreements, contracts and instruments required by this Agreement to be delivered by the Purchaser will be duly executed and delivered by the Purchaser and will be legal, valid and binding obligations of the Purchaser, enforceable against the Purchaser by the Vendor, the Shareholder, Lucas and Lucas PR in accordance with their respective terms.
- 5.3 No Violation. The execution and delivery of this Agreement by the Purchaser and the consummation of the transactions provided for herein will not result in the violation of, or constitute a default under or conflict with or cause the acceleration of any obligation of the Purchaser under:
 - (a) any Contract to which the Purchaser is a party or by which it is bound;
 - (b) any provision of the constating documents or by-laws or resolutions of the board of directors (or any committee thereof) or shareholders of the Purchaser;
 - (c) any judgment, decree, order or award of any court, governmental body or arbitrator having jurisdiction over the Purchaser; or
 - (d) any applicable, law, statute, ordinance, regulation or rule.
- Consents and Approvals. Except as set out in Schedule 5.4, there is no requirement for the Purchaser to make any filing with, give any notice to or obtain any licence, permit, certificate, registration, authorization, consent or approval of, any governmental or regulatory authority as a condition to the lawful consummation of the transactions contemplated by this Agreement.
- 5.5 Known Violations. The Purchaser does not have any actual knowledge that any representation and warranty made by the Vendor or the Shareholder in connection with this Agreement is incorrect or inaccurate as at the Time of Closing, and has no knowledge of any covenant required under the terms of this Agreement to be performed at or prior to the Time of Closing by the Vendor, the Shareholder, Lucas or Lucas PR that has not been fully performed as of the Time of Closing. For the purpose of this Agreement, the "knowledge" of the Purchaser shall mean the actual knowledge of Craig Groendyke, Geoffrey Martin, Jim Searcy, Ken Turko and Ray Mass

6. COVENANTS

- Access to Lucas and Lucas PR. The Vendor and the Shareholder shall forthwith make 6.1 available or cause to be made available to the Purchaser and its authorized representatives and, if requested by the Purchaser, provide a copy or cause for copies to be provided to the Purchaser, of all title documents, Contracts, financial statements, minute books, share certificate books, share registers, plans, reports, licences, orders, permits, title deeds, title opinions, surveys, books of account, accounting records, constating documents and all other documents, information and data relating to Lucas, Lucas PR and the Business. The Vendor and the Shareholder shall cause Lucas and Lucas PR to afford the Purchaser and its authorized representatives every reasonable opportunity to have free and unrestricted access to the Business and the property, assets, undertaking, records and documents of Lucas and Lucas PR. Subject to the rights of any other occupants of any property comprising part of the Leased Property, the Purchaser shall be entitled to cause a full inspection of the Leased Property to be made by appropriate authorities as the Purchaser or its counsel may consider necessary or advisable at any time and from time to time prior to the Closing Date in order to ensure that such properties comply with all applicable statutes, by-laws and regulations. The exercise of any rights of inspection by or on behalf of the Purchaser under this Article 6 shall not mitigate or otherwise affect the representations and warranties of the Vendor or the Shareholder hereunder which shall continue in full force and effect as provided in Section 9.1.
- Access to Third Parties. At the Purchaser's request, the Vendor and the Shareholder shall co-operate with the Purchaser in arranging any such meetings as the Purchaser may reasonably request with: (a) employees of Lucas and Lucas PR; (b) customers, suppliers, distributors or others who have or have had a business relationship with Lucas or Lucas PR; and (c) auditors, accountants, bankers, solicitors or any other persons engaged or previously engaged to provide services to Lucas and Lucas PR who have knowledge of matters relating to Lucas, Lucas PR and the Business.
- Environmental Auditing. Without limiting the generality of Sections 6.1 and 6.2, the 6.3 Vendor shall permit the Purchaser's representatives or consultants to conduct a Phase I environmental audit of the Leased Property and the Vendor, the Shareholder, Lucas and Lucas PR shall co-operate in all respects therewith including, without limitation, obtaining any required or desirable consent or approval of any landlord. The Vendor and Lucas shall undertake to comply with and satisfy the recommendations related to obtaining a sewer discharge permit and a storm water permit in the AMEC Earth & Environmental, Inc. ("AMEC") Phase 1 Environmental Site Assessment for Lucas' Leased Property ("Phase 1 Report"), a copy of which was delivered to the Vendor on April 3, 2003. In respect of the requirement of the Vendor and Lucas to obtain a sewer discharge permit and a storm water permit as described in the Phase 1 Report prior to the Closing Date, Lucas shall have completed and submitted to the appropriate government authority all documentation required to obtain such permits and licenses and shall deliver copies of all such applications and supporting documents to the Purchaser prior to the Closing Date.

- Delivery of Books and Records. At the Time of Closing there shall be delivered to the Purchaser by the Vendor all of the books and records of and relating to Lucas, Lucas PR and the Business. The Purchaser agrees that it will preserve the books and records so delivered to it for a period of six years from the Closing Date and will permit the Vendor or its authorized representatives reasonable access thereto in connection with the affairs of the Vendor relating to its matters, but the Purchaser shall not be responsible or liable to the Vendor for or as a result of any accidental loss or destruction of or damage to any such books or records.
- Ose of Name. The Vendor and the Shareholder agree that from and after the Closing Date neither the Vendor, the Shareholder, nor any of their Affiliates will use the name "Lucas-Insertco" or any part thereof in any form, including but not limited to, a business name or a corporation's name.
- 6.6 Conduct Prior to Closing. Without in any way limiting any other obligations of the Vendor, the Shareholder, Lucas and Lucas PR hereunder, during the period from the date hereof to the Time of Closing:
 - (a) Conduct Business in the Ordinary Course The Vendor and the Shareholder shall cause Lucas and Lucas PR to conduct, and Lucas and Lucas PR shall conduct, the Business and the operations and affairs of Lucas and Lucas PR only in the Ordinary Course of Business;
 - (b) No Unusual Transactions Neither Lucas nor Lucas PR shall, without the prior written consent of the Purchaser, enter into any transaction or refrain from doing any action that, if effected before the date of this Agreement, would constitute a breach of any representation, warranty, covenant or other obligation of Lucas or Lucas PR contained herein;
 - (c) No Material Contracts Neither Lucas nor Lucas PR shall enter into any material supply arrangements or make any material decisions or enter into any material Contracts other than in the Ordinary Course of Business without the consent of the Purchaser, which consent shall not be unreasonably withheld;
 - (d) Continue Insurance The Vendor and the Shareholder shall cause Lucas and Lucas PR to continue, and Lucas and Lucas PR shall continue, to maintain in full force and effect all policies of insurance or renewals thereof now in effect, shall take out, at the expense of the Purchaser, such additional insurance as may be reasonably requested by the Purchaser and shall give all notices and present all claims under all policies of insurance in a due and timely fashion;
 - (e) Contractual Consents The Vendor and the Shareholder shall use their best efforts to give or obtain or cause Lucas or Lucas PR to give or obtain, and Lucas and Lucas PR shall use their best efforts to obtain, the notices, consents and approvals described in Schedule 3.24B;

- (f) Preserve Goodwill The Vendor and the Shareholder shall use their best efforts to preserve, and cause Lucas and Lucas PR to preserve intact, and Lucas and Lucas PR shall use their best efforts to preserve intact, the Business and the property, assets, operations and affairs of Lucas and Lucas PR and to carry on the Business and the affairs of Lucas and Lucas PR as currently conducted, and to promote and preserve for the Purchaser the goodwill of suppliers, customers and others having business relations with Lucas or Lucas PR;
- (g) Discharge Liabilities The Vendor and the Shareholder shall cause Lucas and Lucas PR to pay and discharge, and Lucas and Lucas PR shall pay and discharge, their respective liabilities in the Ordinary Course of Business, except those contested in good faith by Lucas or Lucas PR;
- (h) Corporate Action The Vendor and the Shareholder shall use their best efforts to take and cause Lucas and Lucas PR to take, and Lucas and Lucas PR shall use their best efforts to take, all steps to complete the transactions contemplated by this Agreement, including to take all necessary corporate action, steps and proceedings to approve or authorize, validly and effectively, the execution and delivery of this Agreement and the other agreements and documents contemplated hereby and to complete the transfer of the Purchased Shares and the Purchased Membership Rights to the Purchaser and to cause all necessary meetings of members, directors and shareholders of Lucas and Lucas PR to be held for such purpose; and
- (i) Best Efforts The Vendor and the Shareholder shall use their best efforts to satisfy the conditions contained in Section 7.1.
- 6.7 Delivery of Documents. The Vendor and the Shareholder shall deliver or cause to be delivered to the Purchaser all necessary transfers, assignments and other documentation reasonably required to transfer the Purchased Shares and the Purchased Membership Rights to the Purchaser with a good and valid title, free and clear of all Encumbrances.
- obtain or cause Lucas and Lucas PR to obtain, at or prior to the Time of Closing, from all appropriate federal, state, territorial, provincial, municipal, local or other governmental or regulatory bodies, the licences, permits, consents, approvals, certificates, registrations and authorizations described in Schedule 3.24A. If, notwithstanding such efforts, the Vendor and the Shareholder are unable to obtain any of such consents and approvals, the Vendor and the Shareholder shall not be liable to the Purchaser for any breach of covenant, provided that nothing contained herein shall affect any condition precedent to the Purchaser's obligation to complete the transactions contemplated hereby. If the Purchaser completes the transactions contemplated hereby on the Closing Date notwithstanding that any of the consents and approvals referred to in Schedule 3.24A have not been obtained, the Vendor and the Shareholder shall continue after the Closing Date to use their best efforts as requested by the Purchaser from time to time in order to attempt to obtain any such consent or approval.

6.9 Tax Filings.

- (a) The Vendor shall be responsible for preparing at its cost all returns for taxes relating to Lucas and Lucas PR due for any tax periods ending on or prior to December 31, 2002 with respect to Lucas and ending on or prior to November 30, 2002 with respect to Lucas PR and shall pay all taxes with respect to such tax returns. The Vendor shall file such returns in compliance with all applicable laws.
- If abbreviated returns for the period of December 31, 2002 to the Effective Date (b) with respect to Lucas and for the period of November 30, 2002 to the Effective Date with respect to Lucas PR are required by applicable law, the Vendor shall be responsible for preparing such abbreviated returns at its cost. The Vendor shall be given access to all materials and information reasonably requested by it for such purpose. Upon the completion by the Vendor of applicable tax returns for the periods from December 31, 2002 to the Effective Date with respect to Lucas and from November 30, 2002 to the Effective Date with respect to Lucas PR, the Vendor shall forthwith pay to the Purchaser any taxes due in connection with such periods. The Vendor shall file all such returns in compliance with applicable laws. Such returns shall be prepared on the basis consistent with the historic filing practices of Lucas and Lucas PR unless otherwise required by law, regulation, rule or procedures of any taxing authority. The Vendor agrees that the tax returns relating to Lucas and Lucas PR in respect of the fiscal period ending on the Effective Date shall be based on the Lucas Closing Income Statement and the Lucas PR Closing Income Statement respectively. The Vendor shall prepare the returns in draft and will forward a copy to the Purchaser at least 45 days before the date upon which such returns are required to be filed. Each such draft return to be forwarded to the Purchaser shall be accompanied by copies of all schedules that are relevant to the preparation of such return. The Purchaser shall provide the Vendor within 15 days of receipt of the returns with its comments on the returns and the Vendor shall in good faith consider the comments and make such changes to the returns as are reasonably requested by the Purchaser. The Vendor shall be responsible for the payment of all amounts due and payable, including interest and penalties thereon, if any, on returns for any period prior to or ending on the Effective Date.
- (c) If the Vendor does not prepare returns for taxes relating to Lucas or Lucas PR in respect of tax periods prior to the Effective Date or in respect of the fiscal period ending on the Effective Date (if required by Section 6.9(b)), the Purchaser shall be entitled to prepare and file such returns at the sole expense of the Vendor. The Vendor shall be liable for all amounts owing under such returns and shall not have any recourse against the Purchaser for any reason in relation to such returns.
- (d) In the event that abbreviated returns are not required to be filed by Lucas and/or Lucas PR, Purchaser shall be responsible for preparing at its cost all returns for taxes relating to Lucas and/or Lucas PR, as the case may be, with respect to fiscal periods after December 31, 2002 with respect to Lucas and after November 30,

2002 with respect to Lucas PR. In the case of any taxable period that includes but does not end on the Effective Date (a "Straddle Period"):

- (i) real, personal and intangible property taxes ("Property Taxes") of Lucas for the tax period prior to the Effective Date shall equal the amount of such Property Taxes for the entire Straddle Period multiplied by a fraction, the numerator of which is the number of days during the Straddle Period that are in the tax period prior to the Effective Date and the denominator of which is the number of days in the Straddle Period;
- (ii) Property Taxes of Lucas PR for the tax period prior to the Effective Date shall equal the amount of such Property Taxes for the entire Straddle Period multiplied by a fraction, the numerator of which is the number of days during the Straddle Period that are in the tax period prior to the Effective Date and the denominator of which is the number of days in the Straddle Period;
- (iii) the taxes of Lucas (other than Property Taxes) for the tax period prior to the Effective Date shall be computed as if such taxable period ended as of the Effective Date; and
- (iv) the taxes of Lucas PR (other than Property Taxes) for the tax period prior to the Effective Date shall be computed as if such taxable period ended as of the Effective Date
- 6.10 Other Covenants. Forthwith after the Closing Date, the Vendor shall prepare and deliver to the Purchaser for filing by the Purchaser at Purchaser's cost the notice and request for authorization for transfer of stock and change in control of exempted business with the Puerto Rico Office of Industrial Tax Exemption. Forthwith after the Closing Date, the Vendor shall forthwith use reasonable commercial efforts to obtain the consent of Merck & Co., Inc. as listed on Schedule 3.24B.

7. CONDITIONS OF CLOSING

- 7.1 Conditions of Closing in Favor of the Purchaser. The purchase and sale of the Purchased Shares and the Purchased Membership Rights is subject to the following terms and conditions for the exclusive benefit of the Purchaser, to be fulfilled or performed at or prior to the Time of Closing:
 - (a) Representations, Warranties and Covenants The representations and warranties of the Vendor, the Shareholder, Lucas and Lucas PR contained in this Agreement shall be true and correct at the Time of Closing, with the same force and effect as if such representations and warranties were made at and as of such time, and all of the terms, covenants and conditions of this Agreement to be complied with or performed by the Vendor, the Shareholder, Lucas and Lucas PR at or before the Time of Closing shall have been complied with or performed;

- (b) Regulatory Consents There shall have been obtained, from all appropriate federal, provincial, municipal or other governmental or administrative bodies, such licences, permits, consents, approvals, certificates, registrations and authorizations as are required to be obtained by the Vendor to permit the change of ownership of the Purchased Shares and the Purchased Membership Rights contemplated hereby including, without limitation, those described in Schedule 3.24A (but for greater certainty the regulatory consent of the Puerto Rico Office of Industrial Tax Exemption for the transfer of stock and change in control of an exempted business will not be obtained prior to the Closing Date);
- (c) Contractual Consents The Vendor and the Shareholder shall have given or obtained the notices, consents and approvals described in Schedule 3.24B, in each case in form and substance satisfactory to the Purchaser, acting reasonably;
- (d) Material Adverse Change There shall have been no material adverse changes in the condition (financial or otherwise), assets, liabilities, operations, earnings, business or prospects of Lucas since December 31, 2002 or Lucas PR since November 30, 2002;
- (e) No Action or Proceeding No legal or regulatory action or proceeding shall be pending or threatened by any person which would, in the opinion of the Purchaser, acting reasonably, enjoin, restrict or prohibit
 - (i) the purchase and sale of the Purchased Shares and the Purchased Membership Rights contemplated hereby; or
 - (ii) the Purchaser from carrying on the Business in the manner in which Lucas and Lucas PR are carrying on the Business at the date hereof;
- (f) No Material Damage No material damage by fire or other hazard to the whole or any material part of the property or assets of Lucas or Lucas PR shall have occurred from the date hereof to the Time of Closing;
- (g) No Adverse Legislation No legislation (whether by statute, regulation, order-incouncil, notice of ways and means motion, by-law or otherwise) shall have been enacted, introduced or tabled which, in the opinion of the Purchaser, acting reasonably, adversely affects or may adversely affect the Business;
- (h) Discharge of Encumbrances The Vendor and the Shareholder shall have delivered or caused to be delivered to the Purchaser evidence in form and substance satisfactory to the Purchaser and its counsel that all Encumbrances (other than Permitted Encumbrances) affecting Lucas or Lucas PR have been discharged in full, other than any Encumbrances which, pursuant to the terms of this Agreement, are not required to be discharged;

- (i) Legal Matters All actions, proceedings, instruments and documents required to implement this Agreement, or instrumental thereto, and all legal matters relating to the purchase of the Purchased Shares and the Purchased Membership Rights, including title of the Vendor to the Purchased Shares and the Purchased Membership Rights, shall have been approved as to form and legality by Lang Michener, counsel to the Purchaser, acting reasonably;
- (j) Non-Competition Agreement The Vendor, Nicholas J. Kollman and Kevin J. Kollman shall have executed and delivered to the Purchaser a non-competition agreement in the form of the non-competition agreement annexed hereto as Schedule 7.1(j);
- (k) *Employment* Each of Kevin J. Kollman, Peggy Slendorn-Koppe and Luis Rosada Garcia shall have executed and delivered to Lucas an employment agreement substantially in the form of the employment agreement annexed hereto as Schedule 7.1(k);
- (l) Legal Opinion The Vendor and the Shareholder shall have delivered to the Purchaser a legal opinion of Vendor's Counsel, in the form annexed hereto as Schedule 7.1(1);
- (m) Resignation of Directors and Officers Such directors and officers of Lucas and Lucas PR as the Purchaser may specify shall have resigned in favor of nominees of the Purchaser effective as of the Time of Closing;
- (n) Resignation of Auditors The auditors of Lucas shall have resigned, effective as of the Time of Closing;
- (o) Releases by, the Shareholder, Directors and Officers The Shareholder and such directors and officers of Lucas and Lucas PR as the Purchaser may specify shall have executed and delivered, at the Time of Closing, releases in favor of Lucas and Lucas PR in the form annexed hereto as Schedule 7.1(o);
- (p) Compliance with Permit Recommendation of Phase 1 Report. The Vendor shall have provided evidence satisfactory to the Purchaser, acting reasonably, that the Vendor and Lucas have prepared and submitted to the appropriate authorities the applications to obtain the sewer discharge permit and the storm water permit as described in the Phase 1 Report and shall have provided copies of the license and permit applications which the Vendor and Lucas are required to provide pursuant to Section 6.3;
- (q) Deliveries The deliveries of the Vendor and the Shareholder under Article 8 shall have been completed in accordance with the terms thereof. Delivery may be made via the exchange of counterpart facsimile copies of documents with original documents to be delivered via overnight delivery.

- Non-Performance by the Vendor, the Shareholder, Lucas or Lucas PR. If any of the conditions contained in Section 7.1 shall not be performed or fulfilled at or prior to the Time of Closing in the opinion of the Purchaser, acting reasonably, the Purchaser may, by notice to the Vendor and the Shareholder, terminate this Agreement and the obligations of the Purchaser to complete the transactions contemplated by this Agreement other than the obligations contained in sections 11.5, 11.6 and 11.7, shall be terminated, provided that whether or not the Purchaser so terminates its obligations, the Purchaser may also bring an action pursuant to Article 10 against the Vendor or the Shareholder for damages suffered by the Purchaser where the non-performance or non-fulfillment of the relevant condition is as a result of a breach of covenant, representation or warranty by the Vendor or the Shareholder. Any such condition may be waived in whole or in part by the Purchaser without prejudice to any claims it may have for breach of covenant, representation or warranty.
- 7.3 Conditions of Closing in Favor of the Kollman Parties. The purchase and sale of the Purchased Shares and the Purchased Membership Rights is subject to the following terms and conditions for the exclusive benefit of the Kollman Parties, to be fulfilled or performed at or prior to the Time of Closing:
 - (a) Representations, Warranties and Covenants The representations and warranties of the Purchaser contained in this Agreement shall be true and correct at the Time of Closing, with the same force and effect as if such representations and warranties were made at and as of such time, and all of the terms, covenants and conditions of this Agreement to be complied with or performed by the Purchaser at or before the Time of Closing shall have been complied with or performed;
 - (b) Regulatory Consents There shall have been obtained, from all appropriate federal, provincial, state, territorial, municipal or other governmental or administrative bodies, such licences, permits, consents, approvals, certificates, registrations and authorizations as are required to be obtained by the Purchaser to permit the change of ownership of the Purchased Shares and the Purchased Membership Rights contemplated hereby including, without limitation, those described in Schedule 5.4; and
 - (c) Indemnification Agreement Either the Allfirst Indebtedness shall have been paid and satisfied in full or the Purchaser shall have delivered the Indemnification Agreement to the Kollman Enterprises, Inc. and Nicholas J. Kollman.
- Non-Performance by the Purchaser. If any of the conditions contained in Section 7.3 shall not be performed or fulfilled at or prior to the Time of Closing to the satisfaction of the Vendor, acting reasonably, the Vendor may, by notice to the Purchaser, terminate this Agreement and the obligations of the Vendor and the Purchaser under this Agreement other than the obligations contained in sections 11.5, 11.6 and 11.7, shall be terminated, provided that the Vendor may also bring an action pursuant to Article 10 against the Purchaser for damages suffered by the Vendor where the non-performance or non-fulfillment of the relevant condition is as a result of a breach of covenant, representation or warranty by the Purchaser. Any such condition may be waived in whole or in part by

the Vendor without prejudice to any claims it may have for breach of covenant, representation or warranty.

7.5 Consents. In the event that the Purchaser completes the transaction provided herein on the Closing Date without all of the consents and approvals referred to in Section 3.24 having been obtained, the Vendor agrees to hold any Contracts, licences, permits or authorizations in trust for the benefit of the Purchaser and agrees to take all such action and do or cause to be done all such things as shall be reasonably required in order that benefits of such Contracts, licences, permits or other authorizations are provided to the Purchaser.

8. CLOSING ARRANGEMENTS

- 8.1 Place of Closing. The closing shall take place at the Time of Closing at the offices of the Vendor's Counsel at 401 East Pratt Street, 9th Floor, Baltimore, Maryland 21202.
- 8.2 Transfer. At the Time of Closing, upon fulfillment of all the conditions set out in Article 7 which have not been waived in writing by the Purchaser or the Vendor, the Vendor shall deliver or cause to be delivered to the Purchaser the following:
 - (i) certificates respecting all the Purchased Shares duly endorsed in blank for transfer with all exigible security transfer taxes paid, and will cause transfers of such shares to be duly and regularly recorded in the name of the Purchaser, or its nominee(s); and
 - (ii) an assignment of the Vendor's membership interest in Lucas, together with an executed copy of the operating agreement of Lucas (the "Operating Agreement") showing the Purchaser as having full benefit of 100% of the Lucas Membership Rights,

and will cause meetings of the board of directors (and their members or shareholders if needed) of Lucas and Lucas PR to be held at which the directors and officers of Lucas and Lucas PR specified by the Purchaser will resign in favor of nominees of the Purchaser whereupon, subject to all other terms and conditions hereof being complied with, payment of the Purchase Price shall be paid and satisfied in the manner provided in Article 2.

- 8.3 Closing Deliveries. At Closing, the following shall be completed all in form and substance satisfactory to the recipient, acting reasonably:
 - (a) (i) Lucas and each of Kevin J. Kollman and Peggy Slendorn-Koppe, and Luis Rosado Garcia shall execute and deliver an employment agreement substantially in the from of the employment agreement annexed hereto as Schedule 7.1(k);

- (ii) the Purchaser shall have delivered funds and the Promissory Note to the Vendor as set out in Section 2.2; and
- (iii) the Purchaser, the Vendor and each of Nicholas J. Kollman and Kevin J. Kollman shall execute and deliver a non-competition agreement in form of the non-competition agreement annexed to Schedule 7.1(j).
- (b) In addition to the deliveries set out in Section 8.3(a), the Purchaser shall receive:
 - (i) the opinion of the Vendor's Counsel attached hereto as Schedule 7.1(l) duly signed;
 - (ii) copies of the consents, authorizations and approvals referred to in Subsection 3.24.
 - (iii) certificates of good standing for each of Lucas, Lucas PR and the Vendor in their jurisdictions of incorporation and each and every jurisdiction in which they carry on business, including but not limited to a certificate of good standing or its equivalent, for Lucas PR in Puerto Rico;
 - (iv) an officer's certificate of the President of the Vendor certifying the constating documents of the Vendor and the resolutions authorizing the execution, delivery and performance by the Vendor of this agreement and any other documents required to be provided hereunder;
 - (v) an officer's certificate of the President of Lucas certifying the constating documents of Lucas and the resolutions authorizing the execution, delivery and performance by Lucas of this agreement and any other documents required to be provided hereunder;
 - (vi) an officer's certificate of the President of Lucas PR certifying the constating documents and by-laws of Lucas PR and authorizing the execution, delivery and performance by Lucas PR of any other documents required to be provided hereunder;
 - (vii) resignations from such directors and officers of Lucas and Lucas PR as the Purchaser may specify;
 - (viii) a resignation from the auditors of Lucas and Lucas PR;
 - (ix) releases in favor of Lucas and Lucas PR of the Vendor and such directors and officers of Lucas and Lucas PR as the Purchaser may specify in the form annexed hereto as Schedule 7.1(o);

- (x) [Intentionally deleted]; and
- (xi) such other documents relevant to the closing of the transactions contemplated hereby as the Purchaser, acting reasonably, may request.
- (c) In addition to the deliveries set out in Section 8.3(a), the Vendor shall receive:
 - (i) copies of the consents, authorizations and approvals referred to in Subsection 5.4;
 - (ii) a certificate of good standing of the Purchaser;
 - (iii) an officers certificate of the President of the Purchaser certifying the constating documents and by-laws of the Purchaser and the resolutions authorizing the execution, delivery and performance by the Purchaser of this agreement and any other documents required to be provided hereunder;
 - (iv) [Intentionally deleted]; and
 - (v) such other documents relevant to the closing of the transactions contemplated hereby as the Vendor, acting reasonably, may request.
- 8.4 Transfer of Title and Effective Date. The transfer of title to the Purchaser of the Purchased Shares and the Purchased Membership Rights shall occur on the Closing Date upon the payment of the Purchase Price in accordance with Section 2.2. Provided that the transactions contemplated herein are completed, the economic and accounting aspects of this transaction shall be deemed to have been effective as at the 12.01 a.m. Eastern Standard Time on the Effective Date. During the Interim Period, the Vendor shall not have caused or permitted any dividends or any other distributions on or payments in respect of the Purchased Shares or the Lucas Membership Rights to be made by Lucas or Lucas PR, and the Vendor shall account to the Purchaser for any dividends, distributions or payments made during the Interim Period. Upon such closing, the Purchaser shall be deemed to be entitled to all shareholders' equity accrued or accruing to Lucas and Lucas PR on and after the Effective Date.
- 8.5 Further Assurances. Each party to this Agreement covenants and agrees that, from time to time subsequent to the Closing Date, it will, at the request and expense of the requesting party, execute and deliver all such documents, including, without limitation, all such additional conveyances, transfers, consents and other assurances and do all such other acts and things as any other party hereto, acting reasonably, may from time to time request be executed or done in order to better evidence or perfect or effectuate any provision of this Agreement or of any agreement or other document executed pursuant to this Agreement or any of the respective obligations intended to be created hereby or thereby.

Allfirst Indebtedness. The Purchaser hereby agrees to execute and deliver on the Closing Date an Indemnification Agreement ("Indemnification Agreement") to Kollman Enterprises, Inc. and Nicholas J. Kollman in form and substance as Schedule 8.6 attached hereto in relation to certain guarantees provided by Kollman Enterprises, Inc. and Nicholas J. Kollman in relation to Indebtedness currently owed by Lucas or Lucas PR to Allfirst Bank (now known as Manufacturers and Traders Trust Company) ("Allfirst Indebtedness"). The Purchaser further agrees that within 90 days after the Closing Date, the Purchaser will either pay and satisfy the Allfirst Indebtedness in full, or obtain from Allfirst Bank such releases and terminations as may be necessary to discharge Kollman Enterprises, Inc. and Nicholas J. Kollman from the guarantees described in the Indemnification Agreement provided by Kollman Enterprises, Inc. and Nicholas J. Kollman with respect to the Allfirst Indebtedness.

9. SURVIVAL OF COVENANTS, REPRESENTATIONS AND WARRANTIES

- 9.1 Survival of Covenants, Representations and Warranties. Except to the extent the Purchaser has actual knowledge prior to the Time of Closing that a representation or warranty is incorrect or that a covenant has not been performed, the covenants, representations and warranties contained in this Agreement and in all certificates and documents delivered pursuant to or contemplated by this Agreement shall survive the closing of the transactions contemplated hereby and shall terminate at the expiration of 18 months following the Closing Date, except that:
 - (a) the representations and warranties set out in Sections 3.5, 3.6 and 3.10 (and the corresponding representations and warranties set out in the certificates to be delivered pursuant to Section 7.1(a)) shall survive and continue in full force and effect until the expiration of the applicable statute of limitations;
 - (b) the representations and warranties set out in Section 3.35 (and the corresponding representations and warranties set out in the certificates to be delivered pursuant to Section 7.1(a)) shall survive and continue in full force and effect and shall terminate at the expiration of three (3) years following the Closing Date;
 - the representations and warranties set out in Section 3.29 (and the corresponding representations and warranties set out in the certificates to be delivered pursuant to Section 7.1(a)) shall survive the closing of the transactions contemplated hereby and continue in full force and effect until, but not beyond, 120 days following the expiration of the period, if any, during which an assessment, reassessment or other form of recognized document assessing liability for tax, interest or penalties under applicable tax legislation in respect of any taxation year to which such representations and warranties extend could be issued under such tax legislation to Lucas, Lucas PR or the Vendor as the case may be, provided Lucas, Lucas PR or the Vendor, as the case may be, did not file any waiver or other document extending such period;

- (d) the obligations set forth in Section 2.7, Section 6.9 and the indemnification obligations set forth in Sections 8.6, 10.1(c), 10.1(d) and 10.11 hereof shall survive and continue in full force and effect without limitation of time;
- (e) a claim for any breach of any of the representations and warranties contained in this Agreement or in any agreement, instrument, certificate or other document executed or delivered pursuant hereto involving fraud or fraudulent misrepresentation may be made at any time following the Closing Date, subject only to applicable limitation periods imposed by law; and
- (f) no claim for breach of any other representation, warranty or covenant shall be valid unless the party against whom such claim is made has been given notice thereof before the expiry of the 18 month limitation period or other applicable limitation period, as the case may be.

10. INDEMNIFICATION

- 10.1 Indemnification by the Vendor and the Shareholder. Subject to the limitations set forth in Section 10.10, the Vendor and the Shareholder agree to indemnify and save harmless, on a joint and several basis, the Purchaser, from all Losses suffered or incurred by the Purchaser as a result of or in connection with:
 - (a) any breach by the Vendor or the Shareholder of, or any inaccuracy of any representation or warranty of the Vendor or the Shareholder, contained in this Agreement or in any agreement, certificate or other document delivered pursuant hereto, of which the Purchaser does not have actual knowledge (within the meaning of Section 5.5) prior to the Time of Closing;
 - (b) any breach or non-performance by the Vendor, the Shareholder, Lucas or Lucas PR of any covenant to be performed by it which is contained in this Agreement or in any agreement, certificate or other document delivered pursuant hereto, of which, for such covenants that are to be performed at or prior to the Time of Closing, the Purchaser does not have actual knowledge (within the meaning of Section 5.5) of such breach or non-performance prior to the Time of Closing;
 - (c) any claims, demands, costs and expenses relating to the Excluded Litigation;
 - (d) any claims, demands, costs and reasonable and necessary expenses arising from or in any way connected to the joint filing of tax returns by Lucas and the Vendor; and
 - (e) any claims, demands, costs and reasonable and necessary expenses arising for any legally required withholdings on bonuses paid to employees and officers, or for any fines or penalties resulting from Lucas' failure to possess a sewer discharge permit or a storm water permit as described in the Phase 1 Report.

- 10.2 Indemnification by the Purchaser. The Purchaser agrees to indemnify and save harmless the Vendor, and the Shareholder from all Losses suffered or incurred by the Vendor and the Shareholder as a result of or in connection with: (a) any breach by the Purchaser of or any inaccuracy of any representation or warranty contained in this Agreement or in any agreement, instrument, certificate or other document delivered pursuant hereto of which the Vendor or the Shareholder does not have actual knowledge prior to the Time of Closing; and (b) any breach or non-performance by the Purchaser of any covenant to be performed by it which is contained in this Agreement or in any agreement, certificate or other document delivered pursuant hereto, of which, for such covenants that are to be performed at or prior to the Time of Closing, the Vendor or the Shareholder does not have actual knowledge of such breach on non-performance prior to the Time of Closing.
- Notice of Claim. In the event that a party (the "Indemnified Party") shall become aware of any claim, proceeding or other matter (a "Claim") in respect of which another party (the "Indemnifying Party") agreed to indemnify the Indemnified Party pursuant to this Agreement, the Indemnified Party shall promptly give written notice thereof to the Indemnifying Party. Such notice shall specify whether the Claim arises as a result of a claim by a person against the Indemnified Party (a "Third Party Claim") or whether the Claim does not so arise (a "Direct Claim"), and shall also specify with reasonable particularity (to the extent that the information is available) the factual basis for the Claim and the amount of the Claim, if known. If, through the fault of the Indemnified Party, the Indemnifying Party does not receive notice of any Claim in time to contest effectively the determination of any liability susceptible of being contested, the Indemnifying Party shall be entitled to set off against the amount claimed by the Indemnified Party the amount of any Losses incurred by the Indemnifying Party resulting from the Indemnified Party's failure to give such notice on a timely basis.
 - 10.4 Direct Claims. With respect to any Direct Claim (other than Excluded Litigation), following receipt of notice from the Indemnified Party of the Claim, the Indemnifying Party shall have 30 days to make such investigation of the Claim as is considered necessary or desirable. For the purpose of such investigation, the Indemnified Party shall make available to the Indemnifying Party the information relied upon by the Indemnified Party to substantiate the Claim, together with all such other information as the Indemnifying Party may reasonably request. If both parties agree at or prior to the expiration of such 30-day period (or any mutually agreed upon extension thereof) to the validity and amount of such Claim, the Indemnifying Party shall immediately pay to the Indemnified Party the full agreed-upon amount of the Claim, failing which the matter shall be determined by the court of competent jurisdiction specified herein.
 - 10.5 Third Party Claims. With respect to any Third Party Claim (other than Excluded Litigation), the Indemnifying Party shall have the right, at its expense, to participate in or assume control of the negotiation, settlement or defense of the Claim and, in such event, the Indemnifying Party shall reimburse the Indemnified Party for all the Indemnified Party's reasonable and necessary out-of-pocket expenses in connection with the Third Party Claim prior to the assumption of control. If the Indemnifying Party elects to assume such control, the Indemnified Party shall have the right to participate in the

negotiation, settlement or defense of such Third Party Claim and to retain counsel to act on its behalf, provided that the fees and disbursements of such counsel shall be paid by the Indemnified Party unless the Indemnifying Party consents to the retention of such counsel or unless the named parties to any action or proceeding include both the Indemnifying Party and the Indemnified Party and the representation of both the Indemnifying Party and the Indemnified Party by the same counsel would be inappropriate due to the actual or potential differing interests between them (such as the availability of different defences). If the Indemnifying Party, having elected to assume such control, thereafter fails to defend the Third Party Claim within a reasonable time, the Indemnified Party shall be entitled to assume such control, and the Indemnifying Party shall be bound by the results obtained by the Indemnified Party with respect to such Third Party Claim. If any Third Party Claim is of a nature such that: (a) the Indemnified Party is required by applicable law or the order of any court, tribunal or regulatory body having jurisdiction; or (b) it is necessary in the reasonable view of the Indemnified Party acting in good faith and in a manner consistent with reasonable commercial practices in respect of: (i) a Third Party Claim by a customer relating to products or services supplied by the Business; or (ii) a Third Party Claim relating to any Contract which is necessary to the ongoing operations of the Business or any material part thereof by a reasonable and prudent operator in substantially the same manner in which it has heretofore been operated by Lucas and Lucas PR in order to avoid material damage to the relationship between the Indemnified Party and any of its Customers or to preserve the rights of the Indemnified Party under such an essential Contract, to make a payment to any Person (a "Third Party") with respect to the Third Party Claim before the completion of settlement negotiations or related legal proceedings, as the case may be, the Indemnified Party may make such payment and the Indemnifying Party shall, forthwith after demand by the Indemnified Party, reimburse the Indemnified Party for such payment. If the amount of any liability of the Indemnified Party under the Third Party Claim in respect of which such payment was made, as finally determined, is less than the amount which was paid by the Indemnifying Party to the Indemnified Party, the Indemnified Party shall, forthwith after receipt of the difference from the Third Party, pay the amount of such difference to the Indemnifying Party. If such a payment, by resulting in settlement of the Third Party Claim, precludes a final determination of the merits of the Third Party Claim and the Indemnified Party and the Indemnifying Party are unable to agree whether such payment was reasonable in the circumstances having regard to the amount and merits of the Third Party Claim, such dispute shall be submitted to court.

10.6 Settlement of Third Party Claims. If the Indemnifying Party fails to assume control of the defense of any Third Party Claim, the Indemnified Party shall have the exclusive right to contest, settle or pay the amount claimed. Whether or not the Indemnifying Party assumes control of the negotiation, settlement or defense of any Third Party Claim, the Indemnifying Party shall not settle any Third Party Claim without the written consent of the Indemnified Party, which consent shall not be unreasonably withheld or delayed; provided, however, that the liability of the Indemnifying Party shall be limited to the proposed settlement amount if any such consent is not obtained for any reason.

- 10.7 Co-operation. The Indemnified Party and the Indemnifying Party shall co-operate fully with each other with respect to Third Party Claims, and shall keep each other fully advised with respect thereto (including supplying copies of all relevant documentation promptly as it becomes available).
- 10.8 Exclusivity. The provisions of this Article 10 shall apply to any Claim for breach of any covenant, representation, warranty or other provision of this Agreement or any agreement, certificate or other document delivered pursuant hereto (other than a claim for specific performance or injunctive relief) with the intent that all such Claims shall be subject to the limitations and other provisions contained in this Article 10.
- Guaranty of Nicholas J. Kollman and Kevin J. Kollman. Subject to the limitations 10.9 upon liability set forth below in Section 10.10, Nicholas J. Kollman and Kevin J. Kollman jointly and severally agree to guaranty to the Purchaser the payment of the obligations of the Vendor and the Shareholder for Losses arising in connection with Section 10.1, including without limitation Losses arising as a result of a breach of the representations and warranties set forth in Sections 3.5, 3.6, or 3.10. This guarantee is a direct absolute unconditional irrevocable present continuing guarantee by each of Nicholas J. Kollman and Kevin J. Kollman of performance and payment and is a direct and primary obligation of each of Nicholas J. Kollman and Kevin J. Kollman, and is in no way conditional or contingent upon any attempt to enforce performance upon, or collection from, the Vendor or the Shareholder or upon any other event, contingency or circumstances whatsoever. This shall be a continuing guarantee and shall cover and secure any amounts owing by the Vendor or the Shareholder under this Agreement and the Purchaser shall not be obligated to exhaust its recourse against the Vendor or the Shareholder before being entitled to payment from each and all of Nicholas J. Kollman and Kevin J. Kollman of all and every of the obligations hereby guaranteed. The obligations of the undersigned set forth herein shall not be subject to any deduction, diminution, abatement, set off, recoupment, suspension, deferment, reduction or defense (other than full and strict compliance by each of Nicholas J. Kollman and Kevin J. Kollman of its obligations hereunder) and shall remain in full force and effect without regard to, and shall not be released, discharged or in any way affected by, any circumstances or conditions whatsoever other than by full and strict compliance by each of Kevin J. Kollman and Nicholas J. Kollman of their obligations hereunder.

10.10 Limitation upon Liabilities of Kollman Parties.

(a) Subject to the provisions of this Section 10.10, no liability shall arise against any of the Kollman Parties for any Losses (other than Losses arising pursuant to Sections 2.7, 6.9, 10.1(c), 10.1(d) 10.11 and 11.2 and for Losses arising as a result of a breach of the representations and warranties set forth in Sections 3.5, 3.6 or 3.10) until the Losses exceed the Deductible Amount, in which event, and subject to the limitations set forth in this Section 10.10, the liability of the Kollman Parties hereunder shall be for Losses in excess of the Deductible Amount. The Purchaser agrees that it will first seek payment or reimbursement due to the Purchaser for the amount of any Losses by offsetting the amounts of any such Losses or claims against the unpaid balance (if any) of the Promissory Note in

accordance with the procedures set forth in Section 2.6 prior to attempting to collect any such Losses or claims from any of the Kollman Parties. The Purchaser further acknowledges and agrees that notwithstanding anything to the contrary set forth in this Agreement or in any other document or writing, but subject to the provisions of Section 10.10(b) set forth below, the maximum total aggregate monetary liability of the Kollman Parties for any Losses or for any claims of any kind or nature (including Claims) of the Purchaser or anyone claiming through or on behalf of the Purchaser with respect to this Agreement and the transactions described herein shall not exceed the total sum of \$1,500,000 plus the amount of the then unpaid principal balance (if any) of the Promissory Note. The liability of the applicable Kollman Parties for Losses arising pursuant to Sections 2.7, 6.9, 10.1(c), 10.1(d), 10.11 and 11.2 and for Losses arising as a result of a breach of the representations and warranties set forth in Sections 3.5, 3.6 or 3.10 shall be calculated without regard to the Deductible.

- (b) Notwithstanding the monetary limitation of liability set forth above in Section 10.10(a), the total aggregate liability of the Vendor and the Shareholder to the Purchaser in accordance with the stated terms of this Agreement for the breach of the covenants set forth in Sections 2.7, 6.9, 10.1(c), 10.1(d), 10.11, and 11.2 and for the breach of any representation or warranty set forth in Sections 3.5, 3.6, and 3.10, and the monetary liability of Nicholas J. Kollman and Kevin J. Kollman for the breach of the warranties set forth in Sections 3.5, 3,6 and 3.10, shall be limited in the aggregate to the amount of the Purchase Price.
- (c) The Vendor, the Shareholder, Nicholas J. Kollman and Kevin J. Kollman acknowledge that notwithstanding anything to the contrary set forth in this Agreement or in any other document or writing, the maximum total aggregate monetary liability of the Purchaser for any Losses or for any claims of any kind or nature (including Claims) of the Vendor, Shareholder, Nicholas J. Kollman or Kevin J. Kollman or anyone claiming through or on behalf of any of them with respect to this Agreement and the transactions described herein (other than under the Indemnification Agreement for which there is no maximum total aggregate monetary limit) shall not exceed \$1,500,000.
- 10.11 Excluded Litigation. Notwithstanding any other provision of this Agreement to the contrary, the Vendor and the Shareholder shall jointly and severally indemnify and save harmless the Purchaser, Lucas and Lucas PR and their respective directors, officers, employees and agents, from all Losses suffered or incurred by the Purchaser, Lucas and/or Lucas PR and their respective directors, officers, employees and agents, as a result of or arising directly or indirectly out of or in connection with the court proceedings described in Schedule 10.11 (collectively, the "Excluded Litigation"). The Purchaser agrees that the Vendor and the Shareholder respectively shall have the exclusive right, at their expense, to pursue the Excluded Litigation in the name of the Vendor, Lucas, or Lucas PR, and agrees that the Vendor and the Shareholders respectively shall be entitled to all benefits, including without limitation judgments, decrees, injunctions, and monetary awards, which may result directly or indirectly from the Excluded Litigation. The Purchaser agrees that Lucas and Lucas PR shall use commercially reasonable efforts to

cooperate and assist the Vendor and the Shareholder, at the expense (to the extent that there are any third party out of pocket expenses) of the Vendor and the Shareholder, in the defense and prosecution of the Excluded Litigation. If the Excluded Litigation has not been concluded or settled prior to three (3) years after the Closing Date, Lucas and Lucas PR shall have an irrevocable option, on written notice to the Vendor to assign any or all such litigation matters to the Vendor. If the option is exercised, Lucas and Lucas PR, as the case may be, and the Vendor, agree to use best efforts to effect such assignment and to cause such assignment to be registered with the applicable courts. Notwithstanding such assignment, the indemnity obligations of the Vendor and the Shareholder under this Section 10.11 shall continue hereunder. Any out-of-pocket costs associated with such assignment and registration shall be paid by the Vendor.

11. MISCELLANEOUS

- 11.1 Confidentiality of Information. If, for any reason, the transactions contemplated by this Agreement shall fail to be completed, the Purchaser for itself and its employees, servants and agents agrees to keep confidential and to refrain from using any information concerning the business and affairs of the Vendor, Lucas and Lucas PR which it may have acquired in connection with the transactions contemplated by this Agreement and in addition, shall return all records or documents received from the Vendor relating to Lucas or Lucas PR. The Purchaser's obligations in this respect shall not apply to any information which:
 - (a) is in the public domain at the time of its disclosure to the Purchaser;
 - (b) subsequently comes into the public domain without breach by the Purchaser of its obligations under this Section 11.1;
 - (c) the Purchaser can show was in its possession prior to its disclosure to the Purchaser in connection with these transactions; or
 - (d) is or has been disclosed to the Purchaser by any person otherwise than at the request or occurrence of the Vendor.
- 11.2 Collectibility of Accounts Receivable. In the event that any of the accounts receivable which are 120 days old or older as of the Effective Date (the "Aged Receivables") are not collected by the Purchaser within 180 days of the Closing Date, the Vendor shall repurchase from the Purchaser those accounts receivable. The purchase price for such Accounts Receivable repurchased by the Vendor shall be paid forthwith by certified check by the Vendor to the Purchaser. The Purchaser shall take all reasonable efforts to collect the Aged Receivables within the said 180 day period, and shall notify Vendor within 120 days of the Closing Date of any uncollected accounts. If any Aged Receivables are outstanding at the end of such 180 day period, the Purchaser shall assign to the Vendor the accounts representing such Aged Receivables without recourse and shall deliver all documents in its possession related to those accounts to assist the Vendor in attempting to collect the said accounts; provided however that the Vendor shall not make any independent attempts to further collect said accounts without the prior written

consent of the Purchaser. In the event that the Purchaser does not provide the Vendor with written consent to collect any of the Aged Receivables assigned back to the Vendor within ten (10) Business Days of such assignment, the Purchaser shall forthwith pay fifty percent (50%) of the total amount of such assigned account receivable to the Vendor. In the event that the Purchaser collects any of the Aged Receivables assigned back to the Vendor, the Purchaser shall forthwith pay the amount so collected to the Vendor.

11.3 Notices.

(a) Any notice or other communication required or permitted to be given hereunder shall be in writing and shall be delivered in person, transmitted by telecopy or similar means of recorded electronic communication, addressed as follows:

if to the Vendor:

Kollman & Associates, LLC P.O. Box 9191, Baltimore, Maryland 21222

with a copy to:

Gebhardt & Smith LLP 401 East Pratt Street, 9th Floor Baltimore, Maryland 21202 Attention: Lawrence J. Gebhardt Telecopier: (410) 385-5119

if to the Purchaser:

CCL Label, Inc. 161 Worchester Road, Suite 410 Framingham, MA 01701 Attention: President Telecopier: (508) 872-7671

with a copy to:

CCL Industries Inc.
105 Gordon Baker Road, Suite 800
Willowdale, Ontario
M2H 3P8
Attention: Richard Zakaib
Telecopier: (416) 756-8562

with a copy to:

Lang Michener P.O. Box 747, Suite 2500 BCE Place, 181 Bay Street Toronto, Ontario M5J 2T7 Attention: Geofrey Myers Telecopier: (416) 365-1719

if to Lucas or Lucas PR:

Lucas-Insertco Pharmaceutical Printing Company of Maryland LLC 1831-D Portal Street
Baltimore, Maryland 21224
Attention: Chairman and President
Telecopier: (410) 633-4609

if to Shareholder:

The Kevin J. Kollman Family Trust, c/o Nicholas J. Kollman, Trustee 6760 SE South Marina Way Stuart, FL 34996

with a copy to:

Gebhardt & Smith LLP 401 East Pratt Street, 9th Floor Baltimore, Maryland 21202 Attention: Lawrence J. Gebhardt Telecopier: (410) 385-5119

if to Nicholas J. Kollman:

Nicholas J. Kollman 6760 SE South Marina Way Stuart, FL 34996

with a copy to:

Gebhardt & Smith LLP 401 East Pratt Street, 9th Floor Baltimore, Maryland 21202 Attention: Lawrence J. Gebhardt Telecopier: (410) 385-5119

if to Kevin J. Kollman:

Kevin J. Kollman 154 Oak Ridge Drive York, Pennsylvania 17402

with a copy to:

Gebhardt & Smith LLP 401 East Pratt Street, 9th Floor Baltimore, Maryland 21202 Attention: Lawrence J. Gebhardt Telecopier: (410) 385-5119

- (b) Any such notice or other communication shall be deemed to have been given and received on the day on which it was delivered or transmitted (or, if such day is not a business day, on the next following business day).
- (c) Any party may at any time change its address for service from time to time by giving notice to the other parties in accordance with this Section 11.3.
- 11.4 Commissions, etc. It is understood and agreed that no broker, agent or other intermediary acted for the Vendor, the Shareholder, or the Purchaser in connection with the sale or purchase of the Purchased Shares and the Purchased Membership Rights and the Vendor and the Shareholder agree to indemnify and save harmless the Purchaser and the Purchaser agrees to indemnify and save harmless the Vendor and the Shareholder from and against any claims whatsoever for any commission or other remuneration payable or alleged to be payable to any broker, agent or other intermediary who purports to act or have acted for or on behalf of the party providing such indemnity.
- 11.5 Consultation. The parties shall consult with each other before issuing any press release or making any other public announcement with respect to this Agreement or the transactions contemplated hereby and, except as required by any applicable law or regulatory requirement, neither the Vendor, the Shareholder nor the Purchaser shall issue any such press release or make any such public announcement without the prior written consent of the other, which consent shall not be unreasonably withheld or delayed.
- 11.6 Disclosure. Prior to any public announcement of the transaction contemplated hereby pursuant to Section 11.5, neither party shall disclose this Agreement or any aspect of such transaction except to its board of directors, its senior management, its legal, accounting, financial or other professional advisors, any financial institution contacted by it with respect to any financing required in connection with such transaction and counsel to such institution, or as may be required by any applicable law or any regulatory authority or stock exchange having jurisdiction.

- 11.7 Successors and Assigns. This Agreement shall enure to the benefit of and shall be binding on and enforceable by the parties and, where the context so permits, their respective heirs, legal personal representatives, successors and permitted assigns. Except as provided in this Section 11.7, neither party may assign any of its rights or obligations hereunder without the prior written consent of the other parties. The Purchaser may, at any time prior to the Time of Closing:
 - (a) assign all of its rights and obligations under this Agreement to any person if the Vendor's and the Shareholder's prior written consent is obtained and the assignee delivers to the Vendor an instrument in writing executed by the assignee confirming that it is bound by and shall perform all of the obligations of the Purchaser under this Agreement as if it were an original signatory; or
 - (b) assign all of its rights and obligations hereunder to an Affiliate of the Purchaser who delivers an instrument in writing to the Vendor and the Shareholder as set out in Section 11.7(a);

provided that no such assignment shall relieve the Purchaser of its obligations under this Agreement. In the event of an assignment as set out above, any reference in this Agreement to the Purchaser shall be deemed to include the assignee. After the Time of Closing, the Purchaser may assign its rights, benefits and obligations under this Agreement to any person who purchases all or substantially all of the shares or assets of Lucas or Lucas PR without the consent of the Vendor or the Shareholder.

- 11.8 Amendment and Waivers. No amendment or waiver of any provision of this Agreement shall be binding on any party unless consented to in writing by such party. No waiver of any provision of this Agreement shall constitute a waiver of any other provision, nor shall any waiver constitute a continuing waiver unless otherwise expressly provided.
- 11.9 Counterparts. This Agreement may be executed (i) by facsimile; and (ii) in counterparts, each of which shall constitute an original and all of which taken together shall constitute one and the same instrument.
- 11.10 Legal Advice. The Shareholder hereby represents to the Purchaser and acknowledges and agrees that it had the opportunity to seek and was not prevented seeking independent legal advice prior to the execution an delivery of this Agreement and that, in the event the Shareholder did not avail itself of that opportunity prior to signing this Agreement, it did so voluntarily without any undue pressure and agrees that its failure to obtain independent legal advice shall not be used by it as a defence to the enforcement of its obligations under this Agreement.

[Signatures Continued On The Following Page]

IN WITNESS WHEREOF this Agreement has been executed by the parties.

CCL LAB	EL, INC.
	Stove W. Lancaster Treasurer
KOLLMA Liability C	N & ASSOCIATES, LLC, a Maryland Limite ompany
Bv:	
Name:	Nicholas J. Kollman
	Chairman of the Board
	NSERTCO PHARMACEUTICAL PRINTING OF MARYLAND LLC, a Maryland Limite ompany
By:	
Name:	Nicholas J. Kollman
	Chairman of the Board
CO. OF P	NSERTCO PHARMACEUTICAL PRINTING UERTO RICO, A Delaware Corporation Nicholas J. Kollman
	Chairman of the Board
	AS J. KOLLMAN, ustee of The Kevin J. Kollman Family Trust
Nicholas J	J. Kollman
Nicholas J	J. Kollman
Kevin J. k	Collman

IN WITNESS WHEREOF this Agreement has been executed by the parties.

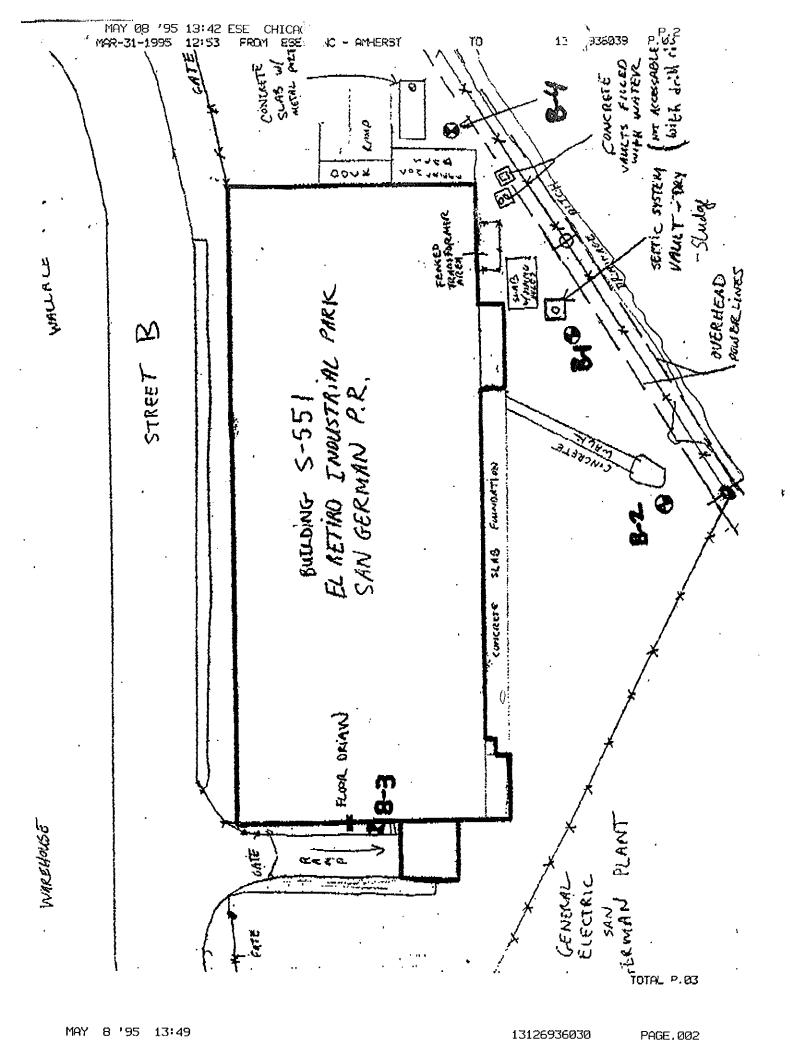
CCL LABEL, INC.

By:
Name:
Title:
KOLLMAN & ASSOCIATES, LLC, a Maryland Limited Liability Company
0.
By: Wicholas J. Kollman Title: Chairman of the Board
TATCA O INCREDITO O DEL DIMA CELITICAL DEINTINO
LUCAS-INSERTCO PHARMACEUTICAL PRINTING
COMPANY OF MARYLAND LLC, a Maryland Limited
Liability Company
By: Multiply Holliev Name: Nicholas J. Kollman Title: Chairman of the Board
THE RESIDENCE BY A DAY OF THE OUT OF THE PROPERTY OF THE PROPE
LUCAS-INSERTCO PHARMACEUTICAL PRINTING
CO. OF PUERTO RICO, A Delaware Corporation
By: Wellow Holling Name: Nicholas J. Kollman Title: Chairman of the Board
NICHOL VOLLMAN
NICHOLAS J. KOLLMAN,
the sole trustee of The Kevin J. Kollman Family Trust
Wester Ly Helman Nicholas J. Kollman
0
William Stollyun Nicholas J. Kollman

IN WITNESS WHEREOF this Agreement has been executed by the parties.

CCL LABEL, INC.

By:
Name:
Title:
KOLLMAN & ASSOCIATES, LLC, a Maryland Limited Liability Company
By: Name: Nicholas J. Kollman Title: Chairman of the Board
LUCAS-INSERTCO PHARMACEUTICAL PRINTING COMPANY OF MARYLAND LLC, a Maryland Limited Liability Company
By: Name: Nicholas J. Kollman Title: Chairman of the Board
LUCAS-INSERTCO PHARMACEUTICAL PRINTING CO. OF PUERTO RICO, A Delaware Corporation
Dw
Name: Nicholas J. Kollman
Title: Chairman of the Board
NICHOLAS J. KOLLMAN, the sole trustee of The Kevin J. Kollman Family Trust
Nicholas J. Kollman
Nicholas J. Kollman
Ken / Illian
Kevin J. Kollman



								_,
(63T	PRO	ental Science & Er DIECY HUMBER 591-1 ILD GROUP 20866	110	94/18/99 PROJECT NA LAB COORD		FINAL PAG ANHERST-NEN IE WYNKOOP		/PHASE 11
CLIENY SAMPLE ESC-FIELD GROU ESE SEQUENCE A	P: It		8-1 20866 1	8-2 20805	8-3 20866 3	8-4 20866 4		
TIME COLLECTED	lt.		05/29/95 10:40	03/29/95 12:20	03/29/95 13:45	03/29/95 14:40		•
Parakeyers	SLIMA	HETHOD						
VOLATILE CREAM								the officer
Chloromethane	l <i>le/ke</i> -nev	8240	<17	<15	<12	<14		
Brocomethane	UG/KG~DRY UG/KG~DRY	8240	<17	₹15	<12	₹14		•
Vinyl Chloride		8240	659) <15	* <12	<14	10	•
Chloroethane	DG/KG-DRY	. 8240	417	<15	₹12	≺14		•
Hethylene Chic	ride	8240	12	13	- <6	9	60	
Adstone	UU/KG-DRY	* 8240	<17	<15	<12	<14"		
Carbon Disultí		8240	<8	. 48	₹6			
1,1.Dichlorout	UG/KG-DRY hene UG/KG-DRY	8240	` ⊲8	<8	<6	<7		
1,1-Dichtorest	han c	8240	<8	48	44	<7		
'trans-1,2-Dich		8240	35	<8	· <6	<7	500	
Chioroform	UG/KG-DRY	8240	<8	¢8	<6	≺ 7	-	·
1.2-Dichtorost	UG/KG·DRY hang	8240	∢ \$	48	€6,	∢7		
2-8utanone ·	UG/KG-PRY	8240	<17	≺15	⊀1 2 °	<14		7
1,1,1-Trichtor		8240	. <8	<8	<6	∢7	_	MEANS THE LOWER
Cerbon Yotrach		8240	48	∢8	.46	(4))	MEANS THE LOWER
Vinyl Acetate	UC/KG-DRY	8240	<17	<15	<12	<14		LIMIT OF DETECTION
Bromodichlorom		8240	<8	<8>	٠ حو	. ∢7		WAS 7 PARTS PER BILLION
1,2-0 ichteropre		8240	<\$	<₿	≺6	⊀7		
eis-1,3-Dichlo		8240	₹ 8	⊀8	<6	. 47		AND SO THIS IS BASICALLY
Yrichloroethen		8240	1400	99	· & · C	· <7	25	A "NUN- DETECT.
Dibromachtorom	UG/KG-DRY	8240	<\$	48	<6 _.	<7		
1,1,2-Trichtore		8240	<8	<8	<6	47		•
Benzone	UG/KG-DRY	8240	₹8	<8	<6	⊀ 7		
trans-1,3-Dichi		8240	< \$	∢ 8	46	< 7		•
Acomotorm	UG/KS-DRY	8240	. <8	<8	<6	<7	•	
4-Nethyl-2-pant		. 8240	417	<15	. <12	<14		
Z-Hexanone	NG/KG-DRY	8240	<17	<15	⊀12 -	<14		
Yetrachlorouthe		8240	≺8	. A	. <6	<7	25	
1,1,2,2-Tetrack		8240	48	<8	٠6	<۲ .		
Toluene	. nd\ka-bak	8240	. <8	<8	. <6	< 7		
	UG/KG-DRY			•		•		

Phone (309) 692-4422

8901 North Industrial Road

Peoria, IL 61615 ·

(800) 234-1239 .

Pax (309) 692-5232

	,PRQ.	ntal Science & JECT #WH8ER 591 LD'GROUP 208	-5110	04/18/95 PROJECT N LAB COORD			SHA CORP/PRASE II
. Crient symple 10 Ear field chorp:	181		8-1 20866	8-2 20865	8-3 20866	· 8·4 20866	
DATE COLLECTED:			1	2	3	4	
TIME COLLECTED:		•	03/29/95 - 10:40	03/29/95 12:20	03/29/95 13:45	03/29/9 5 14:40	
PARAMEYERS	UNITS	MB7HOD		•		•	
Chlorobenzena	HAJvannv .	8240	48	· <8	. <6	. <7	
Ethylbenzene '	UQ/KG-DRY	8240	48	48	<6	<7	
Styrene	US/KG-DRY	8240	48	< 8	<6	. <7	•
Xylanes (total)	UG/KG-DRY	6240	⟨8_	_	<6 ·	47	
cis-1,2-Dichloree	VO/KG-DRY VEHENE VO/KG-DRY	8240	5500	110	10	16	200
TPH	•						
IPH, as diesol		8015/1400	<17	<15	112	<14)
YPH, es gașoline	MG/KG+DRY	. 8015/NO0	<17	<15	:<12	<14	No Problem
TPH, as jot funt	NG/KG-DRY	. 8015/HOD	<17	415	<12 °	<14 .	(No 1.
TPK, as unidentif	MG/KG-DRY lwd hydrocar MG/KG-DRY	8015/нор	₹17	<15	<12	<14)
PCBs saws			•		٠		
Aroctor-1016	JG/KG-DRY	8080	≺130	<120	< 92 .	≺110)
	XG/K G- DR Y	8080	<130	<120	<92	∢11 0	
Aroe(or-1232 (IG/KG-DRY	8080	<130	<120	492	<110	No Purlus
Aroelor-1242 L	₩/KG-DRY	8050	<130	<120	<92	<110	No FAIGURE
Aroclor-1248 .	G/KG-DRY	8080	<130	<320	<92	<110	-
Araclor-1294 U	IG/KG-DRY	8080	<27G	<240	<180	<220	
Aroclor-1260	G/KG-ORY	\$080	<270	<240	<180	<550)
Ketals Ketals		THESE	VALUES	ARE	PARTS	PERM	illion .
Araenic (h	G/KG-DRY	\$V846	2.59	2.15	4.31	\$.03	1-50
Bar tun	G/KQ · DRY	SW844	63.Z	33:6	49.7	60,5	100-3,000
Codmittee	O/KG-DRY	6010	<0.833	40.762	<0.578	<0.691	,
Chroatium	B/KG-DRY	6010	2170	1720	99.2	1190 🎙	1-1,000
Lead [D/KG-DRY	6010	8,47	₹ 7. 62	7,17	<6,91	2-200
Mercury	J/KG+DRY	7471	<0.167	0.160	<0-116	0:217	0.01 - 0.3
Sétenium	Z/KG-ORY	,7740	<0,833	<0.762	<0.578	<0.691	
Silver	J/KG-DRY	7740	<1.67	<1.52	<1.16	<1.38	·
Hotozure 🐧 "	A KALAYI	160.3	'' 40.0	34.4	13.5	27.6	
				•	•		

8201 North Industrial Road

Peoria, IL 61615

Phone (309) 692-4422

(800) 234-1239

Fux (309) 692-5232

Table 1

SUMMARY OF SOIL SAMPLE RESULTS BUILDING S-551 - PARQUE INDUSTRIAL EL RETIRO SAN GERMAN, PUERTO RICO

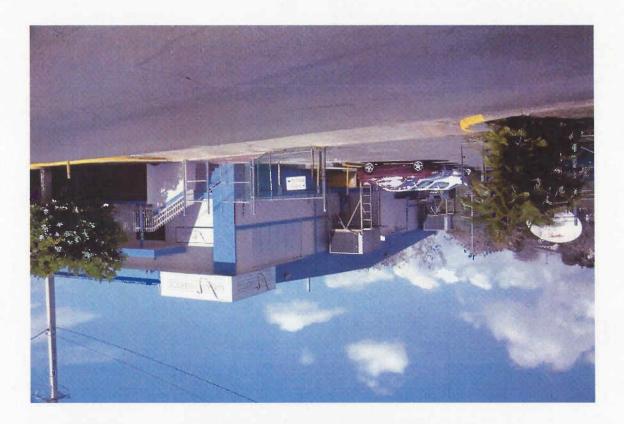
Soll Bome No. Perameter (Semple streete al fect)	11.6	971	11.e	B-4 14-15	Markenum Conference	Typical Concentations to Mattual Solis
VOLATILE ORGANIC COMPOUNDS		Micrograms per Kilogram (uglkg)	Kilogram (vg/k	ħ		
Vinyl Chlorida	&	Ñ	S	QΝ	2.0	
Methylene Chloride	12	13	Ş	ş		
Trans-1,2-Dichloroethene	35	ð	Ş	ð		
Trichforoethene	1,400	66	g	ď	ស	
Tetrachloroethene	Q		9	ON.	រេ	
Cis-1,2-Dichloroethene	2,200	110	10	16	82	
METALS		Milligrams per Kilograms (mg/kg)	ilograms (mg/kg			
Arsenic	2.59	2.15	4.31	2.03	50	
Bańum	ය.2	33.8	49.7	\$0.5	2,000	Range: 100 - 3,000
Chromium	2,170	1,720	99.2	1,190	100	Average = 430 Range: 1 · 1,000
Load	8.47	9	7.17	Q	15	Range: 2 - 200
Mercury	QN	0.160	Q.	0.217	2	Average = 10 Range: 0.01 - 0.3
***************************************						Average = 0.03

All SAMPLES COLLECTED ON 3/29/95 ND = Non Detect Adapted from Hazardous Waste Lend Treatment, U.S. EPA, SW-874 (April, 1983).

col copy 2

ENVIRONMENTAL AND POLLUTION LIABILITY ASSESSMENT

Lucas Insertco
El Retiro Industrial Park
Carreterra 102 KM 33.2
San German, Puerto Rico



Conducted on: 18 February 2003

Submitted to:

CCL Industries, Inc. 105 Gordon Baker Road Willowdale, Ontario M2H 3P8

Submitted by:

AMEC Earth & Environmental, Inc. 160 Traders Blvd. E., Suite 110 Mississauga, Ontario L4Z 3K7

March 2003

AMEC Project # 3717000041



TABLE OF CONTENTS

4	F312 DCBs		
Z	5.3.11 Drums and Other Containers		
7	5.3.9 Odors		
9	5.3.9 OdoO 6.5.3		
9			
9	5.3.7 Septic Systems1		
9			
9	5.3.5 Wastewater and Stormwater		
9	5.3.4 Solid Waste Disposal Areas		
9	5.8.3 Stressed Vegetation		
G	5.3.2 Stained Soil or Pavement		
G	5.3.1 Pits, Ponds, or Lagoons		
G	S EXTERIOR OBSERVATIONS	5.3	
G	5.2.2 General Site Hydrology1		
Þ			
ħ	S GENERAL SITE SETTING	5.6	
ħ	METHODOLOGY1		
Þ		.IS	9
ε		Z. Þ	
ε		4.1	
ε	ECOBDS BEVIEW	RE	7
7	S REASONS FOR PERFORMING ENVIRONMENTAL AND POLLUTION LIABILITY ASSESSMENT 1	3.6	
		3.5	
7	1 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES	3.6	
		3.3	
7		3.5	
		1.E	
7	SER PROVIDED INFORMATION 12	SN	3
L	CURRENT USES OF ADJOINING PROPERTIES	2.5	
6	CURRENT USE OF THE PROPERTY	2.4	
6		2.3	
6	SITE AND VICINITY GENERAL CHARACTERISTICS DESCRIPTION	2.2	
6	LOCATION AND LEGAL DESCRIPTION	1.2	
6	TE DESCRIPTION	LIS	7
L	DEFINITIONS	9.1	
L	USER RELIANCE	3.1	
L		۲.۴	
9		E.1	
9	SCOPE OF SERVICES	2.1	
9		1.1	
9	RODUCTION	LNI	L
L	YAAMMUS ∃VITU	KECI	(∃
E	ON TITLE	ECTI	IS



TABLE OF CONTENTS

82	SIGNATURE OF ENVIRONMENTAL PROFESSIONAL	11
72	BELEBENCES	10
97	DEVIATIONS	6
52	CONCLUSIONS AND RECOMMENDATIONS	8
23		
23	7.1.11 PCBs	
53	7.1.10 Asbestos, Lead-Based Paint, and Radon	
23	2səussi ytətis bns dilisəH 9.1.7	
23	Zstewastewarter	
77	7.1.7 Storm water	
22	7.1.6 Sumps, Pits, Trenches	
22	7.1.5 Storage Tank Management	
22		
22	2.7.7 Hazardous Material Use and Storage	
22		
22	7.1.1 FEDERAL AND STATE RECORD REVIEW	
50	7.1 ENVIRONMENTAL SITE ASSESSMENT	
20	FINDINGS	7
6١	6.3 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS	
6١	6.2 INTERVIEWS WITH SITE MANAGER AND KEY PERSONNEL	
6١		
6١	INTERVIEWS	9
81	5.4.9 Polychlorinated Biphenyls (PCBs)	
81	5.4.8 Unidentified Substance Containers	
81	5.4.7 Drums and Other Containers	
81	bidpi of Liquid	
81		
81	5.4.4 Storage Tanks	
11	5.4.3 Drains and Sumps	
11	5.4.2 Stains or Corrosion	
11	0 0	
11	5.4 INTERIOR OBSERVATIONS	
70	CHOW THEE	2E



LIST OF TABLES

97	rncss juseuco	
	Recommendations for Compliance-Related Findings,	Zable 5
92	Record Databases Searched, Lucas Insertco	4 eldsT
ει	Documents Reviewed, Lucas Insertco	E əldsT
!!	Properties Adjoining Lucas Insertco	Table 2
01	Current Utility Providers, Lucas Insertco	Table 1

LIST OF APPENDICES

Lucas Insertco - EDR Database Report	VPPENDIX C
Lucas Insertco - Documents Provided for Review	APPENDIX B
Lucas Insertco - Site Location and Facility Map	APPENDIX A





AMEC Earth & Environmental, Inc. (AMEC) conducted an Environmental and Pollution Liability Assessment at Lucas Insertco (Lucas) in San German, Puerto Rico on 18 February 2003. AMEC performed this inspection for CCL Industries, Inc. as part of property/asset transaction due diligence, in accordance with the February 2003 AMEC Proposal for Environmental & Pollution Liability Assessment, Baltimore, MD and Puerto Rico. This assessment is based on an onsite inspection, interviews with facility personnel, review of facility records and existing documentation, and contacts with cognizant regulatory agencies. A summary of site conditions, adjacent property uses, potential contaminant sources, compliance issues, and recommendations is provided in the following table.

SAN GERMAN, PUERTO RICO SAN GERMAN, PUERTO RICO

Total Building Area	36,000 ft²
Vumber of Stories	One
anibliug Footprint Footprint	36,000 ft²
Vumber of Buildings	The Lucas facility consists of one main building, which comprises production areas, goods-in and finished goods warehousing, chemical storage, and associated operations and maintenance areas.
Site Area	Approximately 36,000 square feet (ft²)
seouJ yd beiquooO etsC	†66l
Date Current Buildings Erected	20901 biM
Sate Site First Developed	≥09et biM
эгорейу Омпег	Puerto Rico Industrial Development Company (PRIDCO) (Government Owned Corporation)
Current Land Use Type	Light Industrial
-ormer Land Uses	Light Industrial
SITE DEVELOPMENT	
inemssessA eti2 to etsC	18 February 2003
Site Assessor	Adrian Stresow, P.E., AMEC Earth & Environmental, Inc.
	San German, Puerto Rico 00683
	Carretera 102 KM 33.2
ssərbbA əfi	P.O. Box 377
bassassA atič	Fncas Insertco
ASSESSMENT AREA	EINDING



ASSESSMENT SUMMARY – LUCAS INSERTCO SAN GERMAN, PUERTO RICO

Type of Spill or Release	Not applicable
Evidence of Spills or Release	There is no evidence of spills or releases.
Current or Former Gas Station	ON
Current or Former Dry Cleaners	ON
Former USTs	Иоле
Underground Storage Tanks (USTs)	None
sTSA 19m10-7	уоле
Aboveground Storage Tanks (aTSA)	Two 500-gallon plastic ASTs for the temporary storage of used water-based ink
POTENTIAL SITE CONTAMINANT SOE	SCES
Nearest Surface Water Body	Guanajibo River, located approximately 1 kilometer northwest
Groundwater Use at Site	None
Inferred Groundwater Flow Direction	Assumed to be to the northwest, toward the Guanajibo River (Rio Guanajibo)
Depth to Groundwater	Ликлоwn
GROUNDWATER AND SURFACE WAT	В
Transformers	Puerto Rico Electric Power Authority – Autoridad de Energia Electrica (AEE). According to AEE, no transformers at the industrial park contain polychlorinated biphenyla (PCBs).
Electrical Source	Puerto Rico Electric Power Authority – Autoridad de Energia Electrica (AEE)
Vatural Gas	No Natural Gas Service at the plant.
Sanitary Sewer Service	Puerto Rico Aqueduct and Sewer Authority- Autoridad de Acueductos y Alcantarillados de Puerto Rico (AAA)
otable Water Source	Puerto Rico Aqueduct and Sewer Authority- Autoridad de Acueductos y Alcantarillados de Puerto Rico (AAA)
UTILITIES	
evels Below Grade	None
Date Buildings Last Renovated	Not known or evident during site inspection.
ASSESSMENT AREA	FINDING



ASSESSMENT SUMMARY – LUCAS INSERTCO SAN GERMAN, PUERTO RICO

Type of Spill or Release	Applicable		
Evidence of Spills or Releases	None identified		
Known Groundwater Impact	beitified		
Known Soil Impact	None identified		
Adjacent Land Use (west)	Vacant Industrial Building owned by the PRIDCO		
Ajacent land Use (south)	Industrial Building owned by the PRIDCO and occupied by Wallace International (utensil manufacturing)		
Adjacent Land Use (east)	Industrial Building owned by the PRIDCO and occupied by GE (electric controls manufacturing)		
Adjacent Land Use (north)	Vacant land followed by a residential subdivision		
OFF-SITE LAND USE WITHIN 400 M	ETERS (0.25 MILE)		
Solid Wastes Generated	Cardboard, plastic waste, metal waste, rejected [printed] containers, empty drums (plastic and steel), wood pallets, and general waste (rubbish).		
Hazardous Liquid Wastes Generated	Lucas has generated/disposed of the following liquid wastes during calendar year 2002: 900 gallons of residual inks/paints/thinners (commingled)		
bəsU alainətaM auobnazaH	Hazardous materials used and stored onsite include paints, inks, lubricating oil, alcohol, developer, and detergents used for the printing process		
Known / Suspected Soil Fill	None identified		
Known / Suspected Radioactive Materials	beilitnebi enoM		
Known / Suspected Radon	None identified		
Known / Suspected PCBs	None identified		
Known / Suspected ODSs	None identified		
Known / Suspected Lead-Based Paints	There are no known surveys for lead-based paint (LBP) at that facility. Given the age of the Lucas Insertco buildings, LBP may be present.		
sMOA bətəəqsu2 \ nwon>	It was reported that the Puerto Rico Department of Health conducted a survey for asbestos-containing building materials (ACBM) and found no ACBM at the facility, A copy of the report was not available. Given the age of the facility, ACBMs may be present.		
ASSESSMENT AREA	EINDING		



ASSESSMENT SUMMARY – LUCAS INSERTCO SAN GERMAN, PUERTO RICO

SESSMENT AREA	FINDING
MPLIANCE ISSUES	
Permits Required	An air emissions permit is not currently required.
stewater Permit Required	A wastewater permit is not currently required.
rmwater Permit Required	A stormwater permit is not currently required.
MMARY OF COMPLIANCE ISSUES	
entially Significant Issues	Air Emissions our site No volatile emission sources were identified during our site visit.
	Hazardous Substance Storage / Disposal
	No recognized environmental conditions associated with hazardous substance storage or disposal was identified.
	Storage Tank Management There are no identified storage tank management issues.
	Sumps, Pits, Trenches
	There are no identified issues regarding sumps, pits, or trenches.
-16' 2	Stormwater
	Stormwater discharges to drainage inlets located in the stree located immediately south of the facility. No permit for
371 . 41.3	stormwater is required. All stormwater issues are handled by the PRIDCO (building owner).
- 3.	Wastewater
	No wastewater permits are required nor does any analytical
	results exist of wastewater analysis. All wastewater management issues are handled by the PRIDCO (building owner).
	Health and Safety Issues
	No specific health and safety issues were identified. Plant
	management reported no health and/or safety complaints



ASSESSMENT SUMMARY - LUCAS INSERTCO SAN GERMAN, PUERTO RICO

	No recognized environmental conditions or potentially significan liability issues were identified and no further assessment appear warranted.
SECOMMENDATIONS	
	Adjacent Land Use There are no none chemical releases within 400 meters of the Lucas facility.
ssessment of Potential Liability	Onsite No significant environmental liability issues were identified during the site visit.
	PCBs There are no identified PCB issues.
	There are no identified radon issues.
	Based on the age of the facility, there is a potential for presence of both asbestos and LBP.
	No LBP survey is known to have been performed for the
	According to plant management, the Department of Health conducted a survey for ACBMs, however, a copy of that report was not available.
	Asbestos/Lead-Based Paint, Radon
A3AA TN3M88388	FINDING





AMEC Earth & Environmental, Inc. (AMEC) was retained by CCL Industries, Inc. (CCL) to conduct an Environmental and Pollution Liability Assessment at Lucas Insertco located in San German, Puerto Rico. Mr. Adrian Stresow, P.E. of AMEC visited the facility on 18 February 2003 to conduct an inspection of the site, evaluate potential on-site issues, assess facility compliance with environmental directives, and identify surrounding land use activities that could potentially impact the Lucas Insertco site.

1.1 PURPOSE

AMEC conducted this Environmental and Pollution Liability Assessment to identify the potential for environmental contamination related to past and present business practices at Lucas Insertco and to identify potential environmental liabilities associated with adjacent property uses.

1.2 Scope of Services

AMEC implemented the subject Environmental and Pollution Liability Assessment in accordance with the terms and conditions of the February 2003 AMEC Proposal for Environmental & Pollution Liability Assessment, Baltimore MD and Puerto Rico. AMEC generally performed the Assessment in accordance with American Society of Testing and Materials (ASTM) Standard Practice E 1527-00, to the extent applicable and relevant to Costa Rican business operations. Exceptions to the ASTM Standard Practice are described in Section 9 of this report.

The scope of services for the Environmental and Pollution Liability Assessment consisted of the following activities:

- Performance of interviews with facility personnel regarding current and historical operations and waste management activities.
- Completion of a site reconnaissance to evaluate current conditions and note any visual evidence of environmental concerns.
- Coordination with local regulatory authorities to obtain information on inspections, notices of violation, or potential environmental releases.
- Review of the facility's environmental records and existing facility audit/inspection reports.
- Preparation of a report summarizing Environmental and Pollution Liability Assessment findings.

1.3 SIGNIFICANT ASSUMPTIONS

All conclusions regarding the site are based on observations of existing conditions, review of available environmental agency records, and interpretation of site history and site usage data.



Borings, soil or groundwater sampling, and chemical testing have not been performed as part of this assessment.

1.4 LIMITATIONS AND EXCEPTIONS

AMEC professional services and associated findings and recommendations are provided in accordance with customary principles and practices in the field of environmental site assessments. Environmental site assessment evaluations are limited in the sense that conclusions and recommendations are developed from personal interviews and information obtained from limited research and secondary sources. Except as set forth in this report, AMEC did not independently verify the accuracy or completeness of the information provided during personal interviews or derived from secondary sources.

This report presents an overview of issues of environmental concern, reflecting best judgment using information reasonably available at the site at the time of the AMEC site visit. AMEC has prepared this report using information understood to be factual and correct and shall not be responsible for conditions arising from information or facts that were concealed or not fully disclosed to AMEC at the time of the site visit.

1.5 USER RELIANCE

This report is intended for the use of CCL Industries Inc., in assessing the environmental condition of the site at the time of the AMEC inspection, and its use shall be limited to the terms, conditions and limitations specified in AMEC's standard terms and conditions. The scope of services performed in the execution of this assessment may not be appropriate to satisfy the needs of other users. AMEC will not be responsible for the use of this report by any other party, or reliance on or any decision based on it without the prior written consent of AMEC. AMEC accepts no responsibility for damages, if any, by any other party as a result of decisions or actions based on this report.

1.6 DEFINITIONS

Terms used throughout this ESA Report are defined as follows:

- Adjoining Properties Any real property or properties, the border of which is contiguous or partially contiguous with that of the site, or that would be contiguous or partially contiguous with that of the site, but for a street, road, or other public thoroughfare separating them (per MSTM Standard Practice E 1527-00).
- External Facilities All facilities, including process areas, fuel storage, materials and/or waste storage, and social, which are located outside of the primary site building. Any and all secondary structures, which are not part of the site buildings, are considered to be external facilities.



- Groundwater Flow Direction Refers to the direction of shallow groundwater flow, and is based on a review of topographic maps, surface water conditions in the project area, public documents, and/or interviews with knowledgeable people on the subject.
- Hazardous Waste A waste or combination of wastes which, because of its quantity, concentration, or physical, chemical or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of, or otherwise managed (per ASTM Standard Practice E 1527-00).
- Internal Facilities All facilities, including process areas, warehouse, and administrative, which are located within the primary site building.
- Project Area An approximately 400-meter (0.25-mile) radius around the site.
- Recognized Environmental Condition The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (per ASTM Standard Practice E 1527-00).
- Site Lucas Insertco, located in San German, Puerto Rico.



SITE DESCRIPTION 2

The following information was obtained during the AMEC site reconnaiseance and from interviews with persons knowledgeable about the site.

2.1 SITE LOCATION

The Lucas Insertoo facility (hereinafter referred to as Lucas Insertoo) is located in San German, approximately 1 kilometer east of the city center (see site location map in Appendix A). Lucas Insertoo is located at Carretera 102 KM 33.2, within the El Retiro Industrial Park.

2.2 GENERAL SITE DESCRIPTION

Lucas Insertco site is located in an area of mixed light industrial, and residential land uses. The Lucas Insertco property is relatively level and is located at a topographic elevation of approximately 50 meters above mean sea level (msl).

2.3 CURRENT USE OF THE PROPERTY

At the time of the AMEC assessment, Lucas Insertco used the property for contract-specified manufacturing of label printing exclusively for the pharmaceutical industry. The facility is equipped with 4 large and 2 smaller printing presses. Additionally, several label folders/cutters are used dependant upon the product produced.

Lucas Inserto currently employs approximately 85 employees and operates 24 hours per day (three shifts), 6 days per week.

2.4 Descriptions of Ousite Structures, Roads, and Other Improvements

The Lucas Insertco facility consists of one main structure. The facility includes production areas, storage, a pre-press area, administrative offices, and flammable substance storage areas. The various areas within the Lucas Insertco facility are described below and identified in Figure 2:

Raw Material Storage Area – Lucas Inserteo uses the raw material storage area for storage area of new (unused) cardboard boxes, wrapping material, and paper goods. This storage area is located at the southeast corner of the facility.

Finished Goods Warehouse - Lucas Insertco uses the finished goods warehouse for storage of finished, packaged product. The finished goods warehouse is located in the northwest corner of the building.





Flammable Storage – There is no flammable chemical storage building located at the facility. Small are used at the various printing press areas for small container storage of alcohol, thinners, degreasers and paints.

Pre-press Area – The pre-press area is utilized for the design and preparation (development) of print layout boards/screens.

Sludge Waste Accumulation Area – Located adjacent to the west of the cafeteria, the waste accumulation area is used for temporary storage of paint sludge and waste paint liquids. Lucas Insertco temporarily stores this type of waste in this area prior to removal by disposal contractors (Photograph 2).



Current utility providers for the Lucas Insertco site are identified in Table 1.

Table 1 Current Utility Providers Lucas Insertco, San German, Puerto Rico

Service Provider	Utility / Service
Puerto Rico Aqueduct and Sewer Authority- (Autoridad de Acueductos y Alcantarillados de Puerto Rico [AAA]) Carretera 362 #4 Suite 101 San German, Puerto Rico 00638 Telephone: 787-264-0740	Water (potable) and Wastewater



Table 1 Current Utility Providers Lucas Insertco, San German, Puerto Rico

Service Provider	Utility / Service
Puerto Rico Electric Power Authority (Autoridad de	Electric
Energia Electrica Estado Libres Asociado de	
Puerto Rico)	
Calle Luna Apartado 62	
San Germán, PR 00683	
Telephone: 787-289-3434	
Progasco	Propane
Avenue Ponce De Leon 1225, Ste. 1105	(No natural gas at site)
San Juan, Puerto Rico 00907	
Telephone: 787-782-0140	
BFI Waste Systems	Solid Waste Disposal
Ponce, Puerto Rico	
Telephone: 787-788-7171	

2.5 CURRENT USES OF ADJOINING PROPERTIES

Based on a visual reconnaissance of the properties adjoining the site, the properties that adjoin the Lucas Insertco site are identified in Table 2.

Table 2 Properties Adjoining Lucas Insertco, San José

Adjoining Property/Roadway	Direction from the Site
Vacant land followed by a residential subdivision.	итоИ
Industrial Building owned by the PRIDCO and occupied by GE (electric controls manufacturing).	tsa∃
Industrial Building owned by the PRIDCO and occupied by Wallace International (utensil manufacturing).	tjnos
Vacant Industrial Building owned by the PRIDCO.	tsəW

AMEC viewed the adjoining properties from public roadways for evidence of significant chemical storage, improper waste disposal, or other outward indications of adverse environmental conditions. No visual evidence of improper waste disposal or other visual indication of adverse environmental conditions was observed.



USER PROVIDED INFORMATION 3

The following information was obtained during the AMEC site reconnaissance and from interviews with people knowledgeable about the site.

3.1 TITLE RECORDS

The Puerto Rico Industrial Development Company (PRIDCO) maintains all property title information for the Lucas Insertco facility.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

Lucas Insertco personnel are not aware of environmental liens or activity/use limitations for the subject property.

3.3 SPECIALIZED KNOWLEDGE

Lucas Insertoo has not disclosed any information on any environmental issues encumbering the property or any specialized knowledge or experience that would provide important information regarding previous ownership or uses of the property that may be material to identifying recognized environmental conditions.

3.4 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

AMEC has not been provided any information regarding a valuation reduction of the Lucas Insertco property due in whole or in part to environmental conditions associated with the property.

3.5 ОWNER, РROPERTY МАИАСЕР, АИD ОССИРАИТ ІИГОРМАТІОИ

The property owner is PRIDCO.

3.6 Reasons for Performing Environmental and Pollution Liability Assessment

AMEC has performed this Assessment at the request of CCL Industries, Inc. to identify current operating practices that may lead to future liability or environmental pollution incidents.



Records provided by Lucas Insertco and obtained by AMEC during subsequent reviews are documented below. Copies of selected documents are provided in Appendix B.

Table 3 Lucas Insertco, San José Lucas Insertco, San José

Waste Disposal Record # 81666 Ink Sludge	12 December 2002	гисяз Іизецсо
Waste Disposal Record #88410 Fluorescent Lamps	200S linqA 4	Fncss Insertco
Material Safety Data Sheets for various paints/inks, cleaners, developer and ubricating oil used by Lucas Insertco	suoins√	VMEC Fncss Juseuco sug
	(expires 30 September 2003)	
Separtment of Health License	30 September 2002	Fncss Inserco
Analytical data for Paint Sludge	May 15, 2001	Fncss Inserco
Occument Title / Description	Document Date	Provided / Obtained By

4.1 HISTORICAL USE INFORMATION ON THE PROPERTY

Research on site historical information was limited to interviews with on-site personnel, who indicate that the property was undeveloped prior to construction of the current atructure in the early 1960s. No known major renovations to the Lucas Insertco building are known.

4.2 HISTORICAL USE INFORMATION ON ADJOINING PROPERTIES

Property adjoining the Lucas Insertco facility consists of mixed residential and commercial uses. Property to the north is developed as residential housing. Land south of the facility is occupied by Wallace International, a utensil manufacturer. The land to the north is currently vacant, followed by a residential subdivision across Carretera 102. Land west of the facility is occupied by a vacant industrial building and land to the east is occupied by a GE controls assembly facility.



SITE RECONNAISSANCE

This section provides a summary of reconnaissance methodology, site setting, and general observations regarding the facility interior and exterior as they relate to recognized environmental conditions associated with known property uses.

5.1 METHODOLOGY

AMEC gathered all site reconnaissance information during a 18 February 2003 visit to the Lucas Insertco facility. The AMEC assessor conducted an initial interview with the Lucas Insertco General Manager (Mr. Luis D. Perez). The AMEC assessor conducted a detailed facility inspection, accompanied by Mr. Perez. Mr. Perez responded to follow-up questions and provided copies of requested documentation.

After the sire reconnaissance, AMEC reviewed applicable environmental regulations and conducted telephone interviews with agency personnel to obtain clarification on local requirements.

5.2 GENERAL SITE SETTING

The Lucas Insertco site is located about 1 kilometer east of the center of San German at a topographic elevation of approximately 50 meters above sea level. The surface topography of the Lucas Insertco site itself is generally level, although the overall land slope is to toward the southwest..

5.2.1 General Site Geology

The underlying geology of the San German area consists volcaniclastic and sedimentary rocks of Tertiary and Cretaceous age. The Tertiary sedimentary rocks consist of the Juana Díaz Formation of Oligocene and Miocene age, which overlies the volcaniclastic and sedimentary rocks, and the Ponce Limestone at Miocene and Ponce Limestone are in fault contact with older volcaniclastic and sedimentary rocks in places. The volcaniclastic and sedimentary rocks or places. The volcaniclastic and sedimentary rocks in places. The volcaniclastic and sedimentary rocks brecis, sandstone, and siltstone. The Juana Díaz Formation consists of thin-bedded sandy to brecis, sandstone, and siltstone. The Juana Díaz Formation and conglomerate. The Ponce Limestone unconformably overlies the Juana Díaz Formation and consists of a shallow-marine, fossiliferous limestone that grades to clastic facies in subsurface areas. Total thickness of the formation is uncertain but may exceed 1,000 feet.



5.2.2 General Site Hydrology

Puerto Rico has abundant groundwater and surface water resources due to relatively heavy rainfall over the mountainous interior of the island and receptive, sedimentary rocks around the island's periphery. These alluvial and limestone formations form an extensive artesian aquifer system on the north coast. Water-table aquifers overly the north coast artesian aquifer and occur at shallow depths along most of Puerto Rico's coastline. Man-made reservoirs located on principal water courses collect runoff and are used for water supply, flood control, and limited hydroelectric power generation. Ground water accounts for about 30 percent of the total amount of water used in Puerto Rico, whereas surface water accounts for about 70 percent.

Based on site topography in the area, groundwater flow is assumed to be to the north, towards the Rio Guanajibo. Localized groundwater flow patterns may vary due to the presence of underground utilities, heterogeneous subsurface conditions, and/or local recharge factors. Therefore, without site-specific or localized hydrogeologic information, any material release of a hazardous substance or petroleum product into the natural environment on an adjacent property or in the Project Area should be considered a potential environmental risk to the site through or in the Project Area should be considered a potential environmental risk to the site through contaminant migration via advection and dispersion within the localized groundwater flow system.

5.3 EXTERIOR OBSERVATIONS

5.3.1 Pits, Ponds, or Lagoons

No waste disposal pits, ponds, or lagoons were identified during the Lucas Insertco reconnaissance or from interviews or records reviews. In addition, no waste disposal pits, ponds, or lagoons were identifiable during the visual observations of adjoining properties.

5.3.2 Stained Soil or Pavement

No significant areas of visibly stained soil and pavement were identified during the Lucas Insertco reconnaissance.

5.3.3 Stressed Vegetation

There is no evidence of stressed vegetation at the Lucas Insertco facility, as there is only a small portion of unpaved surface within the property fenceline.

5.3.4 Solid Waste Disposal Areas

Current land use does not suggest the presence of any land-based solid waste disposal activities in the vicinity.





5.3.5 Wastewater and Stormwater

Lucas Insertco discharges wastewater (there are no specific process wastewater flows) to the sanitary sewer system. A permit has not been required of the facility. There are no mechanical controls (in the form of valves or diversions) on the discharge of wastewater from the Lucas Insertco site.

Stormwater runoff from roofs and paved exterior surfaces flows as sheet flow to storm drains located in Calle B along the facility's southern property margin. In

addition, a concrete lined storm water drainage ditch (Photograph 3) is located just outside the subject property's western margin. According to Lucas Insertco personnel, they are not required to have a storm water discharge permit, as the PRIDCO handles all storm water and industrial park infrastructure issues. There are no controls on stormwater discharge from the site: Lucas Insertco does not retain, test, or treat stormwater prior to discharge.

5.3.6 Wells

Potable water is supplied by AAA, which reportedly uses a combination of surface water and ground water resources. Based on the reconnaissance, interviews, and document reviews conducted as part of this assessment, there are no indications of any on-site water supply wells. In addition, there is no evidence of dry wells, irrigation wells, injection wells, or abandoned wells at the Lucas Insertco site.

5.3.7 Septic Systems

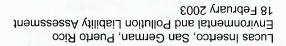
Lucas Inserteo discharges wastewater to the sanitary sewer system and associated AAA treatment plant. Lucas Inserteo facility drawings indicate the presence of three septic systems onsite. No evidence of septic systems was identified at the facility during our reconnaissance.

5.3.8 Storage Tanks

Lucas Insertco has two 500-gallon aboveground tanks containing waste ink and paint liquid does not use any tanks for bulk liquid chemical storage. The tanks are pumped on an as-needed basis by BFI Waste Systems. Lucas Insertco does not use any tanks for bulk liquid chemical storage.

5.3.9 Odors

There are no readily detectible chemical odors outside the Lucas Insertco facility.





biupid to alood 01.8.3

No standing pools of liquid were observed outside the Lucas Insertco facility.



5.3.11 Drums and Other Containers

Lucas Insertco stores containers of hazardous materials in a covered area along the east side of the main structure (Photograph 4). Containers used for storage of liquids include 55-gallon steel and plastic drums of lubricating oil, detergent and inks. Containers are stored on secondary containment pallets within a concrete bermed secondary containment pallets within a concrete bermed secondary containment pallets within a concrete parage area.

5.3.12 PCBs

There is no identified PCB-containing equipment at the Lucas Insertco facility. The Puerto Rico Electric Power Authority (AEE) owns and maintains a substation located approximately 1 kilometer west of the Lucas Insertco facility. According to AEE, no PCB containing transformers are known for the industrial park. There is no evidence of staining or releases of transformer dielectric fluid.

5.4 INTERIOR OBSERVATIONS

5.4.1 Heating/Cooling

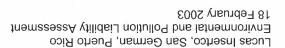
The Lucas Insertco facility maintains a cooling system which was reported to only be operated periodically during the work day (primarily for ventilation within the production area). The refrigeration units were reported to be serviced by an outside vendor. No additional details were available from Lucas Insertco staff.

5.4.2 Stains or Corrosion

There was no evidence of significant staining or corrosion inside the Lucas Insertco facility.

5.4.3 Drains and Sumps

No floor drains were noted within the Lucas Insertco facility.





5.4.4 Storage Tanks

The Lucas Insertco facility does not have any interior storage tanks.

5.4.5 Odors

A mild ink odor was noted in the production area. Plant personnel reported that no complaints regarding odors at the facility have been made.

biupid to aloo9 8.4.8

No standing pools of liquid were observed inside the Lucas Insertco facility.

5.4.7 Drums and Other Containers

At the time of this assessment, it is estimated that Lucas Insertco had no more than 30 containers of chemical substances in storage. Interior storage locations for these materials include the flammable substance cabinets at the various presses and outside the pre-process area (cabinets with the various colors of ink). Containers used for storage of hazardous liquids include 1 to 10-gallon plastic containers, and plastic and metal containers ranging in size from 8-ounces to 32-ounces.

5.4.8 Unidentified Substance Containers

During the on-site reconnaissance, there were no observed incidents of unlabeled containers.

5.4.9 Polychlorinated Biphenyls (PCBs)

Lucas Insertco does not have electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs (other than fluorescent light ballasts).



SECTION 6 INTERVIEWS

This section identifies the persons contacted to obtain information during the assessment of Lucas Insertico.

6.1 INTERVIEWS WITH OWNER

The building owner is the Puerto Rico Industrial Development Company (PRIDCO) and is leased by Lucas Insertco. All interviews were conducted with personnel at the Lucas Insertco facility in San German.

6.2 INTERVIEWS WITH SITE MANAGER AND KEY PERSONNEL

AMEC performed the initial interview and exit briefing with the Lucas Insertco Plant Operations Manager, Mr. Luis D. Perez.

Mr. Perez provided tours of the facility and provided copies of relevant documentation including facility diagrams, information on waste generation and disposal practices, the facility operations, and material safety data sheets.

6.3 INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

AMEC contacted PRIDCO and the Puerto Rico Aqueduct and Sewer Authority to obtain clarification on wastewater monitoring requirements (Telephone: 787-832-4356). AMEC also contacted the Department of Environment and Natural Resources (Departamento de Recursos Naturales y Ambientales]) to obtain information on hazardous waste disposal manifest requirements and environmental impact data in the area of the Lucas Insertco facility (Telephone: 787-833-3700).





This section provides a summary of information obtained during the physical reconnaiseance, interviews with site representatives, and review of applicable environmental regulations.

7.1 ENVIRONMENTAL SITE ASSESSMENT

7.1.1 FEDERAL AND STATE RECORD REVIEW

AMEC reviewed a zip code search of Federal and State environmental record databases conducted by EDR (radial searches not available in Puerto Rico) to identify listings at the subject site. Databases searched are shown in Table 3. A copy of the database is presented in Appendix C.

RECORD DATABLE 4

Planned (NFRAP).		
be marked No Further Remedial Action	Planned	
CERCLA sites that have been delisted will	No Further Remedial Action	CERC-NFRAP
(NFRAP).		
Further Remedial Action Planned		
that have been delisted will be marked No		
and ultimately placed on the NPL. Sites		
several levels of review and evaluation,		
in CERCLIS, it may be subjected to		
the Superfund Act. Once a site is placed		
substances pursuant to the CERCLA, or	tsiJ	
threatened release of hazardous	Liability Information System	
or is currently investigating for a release or	Response, Compensation, and	
Compilation of sites EPA has investigated	Comprehensive Environmental	CERCLIS
action under the Superfund program.		
waste sites identified for priority remedial		
Uncontrolled or abandoned hazardous		JdN
sponse, Compensation, and Liability Act	nprehensive Environmental Res	1. CERCLA: Cor
A) Record	onmental Protection Agency (EF	A. Federal Enviro



./		
Department of Environmental Management (RIDEM).		
maintained by the Rhode Island	Storage Tank List	
tanks or leaking active storage tanks	Tank/Leaking Underground	
Registered active and inactive storage	Underground Storage	TSU1/TSU
	cau i am	0 0001 0000 1 :0
	20117 otet	B. Puerto Rico S
health information to aid in the clean-up.		
(Superfund) site and contain technical and		
mandate a permanent remedy at an NPL		
Records of Decision. ROD documents		
The ROD database provides a list of	Records of Decision	ROD
	Federal Database	3. Supplemental
activity pursuant to RCRA.		
handlers which have corrective action		1 _ 1
by the EPA and identifies hazardous waste		-
The CORRACTS database is maintained	Corrective Action Report	STOARROCTS
requirements.		
b) meeting other applicable RCRA		
regulated hazardous waste per month, or		
perween 100 kg and 1000 kg of EPA-		
Information on facilities a) generating	Small Quantity Generators	II.
applicable RCRA requirements.		
waste per month, or b) meeting other		
than 1000 kg of EPA-regulated hazardous		
Information on facilities a) generating more	Large Quantity Generators	
) (məţsk
		noisemaofn
		ind Recovery
waste.		Conservation
or dispose of EPA-regulated hazardous	Disposal (TSD) Facilities	Resource
Information on facilities which treat, store,		SCRIS
toA	rce Conservation and Recovery	ы КСКА: Resou
INNED)	TABLE 4 (CONT	

The regulatory database review revealed the following:

- The subject site, referenced as PR Industrial Development Co., is listed in the RCRIS database. The facility is listed as a conditionally exempt small quantity generator. No process, company or SIC code is listed for the facility.
- Wallace International of Puerto Rico, adjacent the south of the site, is listed in the UST database as having "closure" reported for its tank status. No additional information was available regarding the apparent former UST at this facility. In addition, this facility is listed



in the Toxic Chemical Release Inventory System (TRIS), however, no violations are known reported for the facility.

- Texaco PR Inc, San German SS, located at RD 102 KM 33.6, near the subject site, is listed in the RCRIS database as a conditionally exempt small quantity generator. No violations were reported for the facility. In addition, no information regarding the operation of the USTs at this facility was reported.
- Caribe G.E. Dist. Components, locate adjacent to the east of the Lucas Insertco facility was reported in the EPA FINDS database. No violations were identified for the G.E. facility.

2.1.7 Air Emissions

Lucas Insertco does not have a specific air emissions permit and does not monitor air emissions prior to release, as neither is currently required.

7.1.3 Hazardous Material Use and Storage

All hazardous material identified at the facility appeared to be properly used and stored. No observation of the misuse of hazardous material was noted during the reconnaissance.

1.1.4 Hazardous Waste Storage / Disposal

Lucas Insertoo stores hazardous wastes in an exterior storage area (at the east side of the facility. Non-hazardous waste paint liquid and ink sludge are temporarily stored in two 500-gallon tanks located at the rear of the facility, west of the cafeteria. No areas of significant staining were noted within the storage areas.

7.1.5 Storage Tank Management

Lucas Insertco does not use any tanks for bulk liquid chemical storage. There are no identified storage tank management issues.

7.1.6 Sumps, Pits, Trenches

There are no identified sumps, pits or trench issues at the site.

7.1.7 Storm water

All storm water from the Lucas Insertco site now discharges as sheet flow to open gutters/drainage inlets in the street located immediately south (Calle B) of the Lucas Insertco facility. No issues identified with storm water were identified during the reconnaissance.



7.1.8 Wastewater

Lucas Insertoo does not generate specific process wastewater flows at the subject facility. All wastewaters (primarily sanitary flow) are discharged to the municipal sanitary system. No permit is required for the facility and no issues associated with wastewater were identified during the site reconnaissance.

2.1.7 Health and Safety Issues

No health and/or safety issues were observed during our site visit. Plant management did not report any complaints or safety issues from employees at the Lucas Insertco facility.

7.1.10 Asbestos, Lead-Based Paint, and Radon

Lucas Insertco personnel are not aware of any asbestos or lead-based paint (LBP) surveys conducted internally. Plant management reported that the Department of Health conducted an inspection related to LBP and asbestos in the past. AMEC and plant management was unsuccessful in identifying the appropriate agency which may have conducted the surveys.

Both asbestos-containing building materials (ACBM) and lead-based paint formulations have been banned in Puerto Rico since the 1980s. Based on the age of the original Lucas Insertco facility (estimated to be early 1960s), ACBM and lead-based paints may be present.

1. LBP and asbestos surveys have not been performed. Based on the age of the Lucas Inserteo facility, there is a potential for presence of both ACBM and LBP.

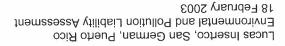
Lucas Insertico personnel are not aware of any radon gas surveys conducted to date. Radon gas is produced where soils and rocks contain uranium. In buildings with high air circulation, radon is not considered a health problem. However, in confined spaces radon can concentrate and become a health hazard. Given the facility design, the potential for accumulation of radon gas is likely to be low.

7.1.11 PCBs

There is no known or suspected (other than light ballasts) PCB-containing equipment at the facility.

7.2 POLLUTION LIABILITY ASSESSMENT - ADJACENT LAND USE

AMEC reviewed the current land uses of neighboring properties to assess any potential environmental impacts to the site that may arise from off-site operations. The inferred groundwater flow direction is to the north; therefore, downgradient land use within 400 meters (0.25 miles) of the Lucas Insertco Facility was noted. The adjacent to the south facility consists of the Wallace International utensil manufacturing facility.





AMEC observed no obvious environmental issues on the downgradient properties. Based on groundwater gradient, it is AMEC's opinion that there are no apparent significant environmental issues at the site associated with surrounding land use activities.



CONCLUSIONS AND RECOMMENDATIONS

Based on the Phase I ESA, it is AMEC's opinion that there are no recognized environmental conditions in connection with the site, as defined in ASTM Standard Practice E 1527-00.

The term recognized environmental conditions means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any dround, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions. (ASTM E 1527-00, Section 1.1.1)

To address potential regulatory and operational issues, AMEC offers the recommendations identified in Table 4.

Table 5 Recommendations for Compliance-Related Findings Lucas Insertco, San German

Regulation or Permit Provision	Recommendation for Corrective Action	Pinding
səluЯ sotsədsA AЧ∃	Implement asbestos surveys to document the status of building materials throughout the facility, and implement a LBP survey to inventory the status of painted surfaces and ensure compliance with current asbestos and leadbased paint restrictions.	L



SECTION 9 SECTION 9

AMEC generally performed this Assessment in accordance with American Society of Testing and Materials (ASTM) Standard Practice E 1527-00, to the extent applicable and relevant to European business operations. The ASTM standard is intended to constitute appropriate inquiry to establish innocent landowner status under CERCLA, a provision that is not applicable to Costa Rican business ventures. Nevertheless, AMEC conformed to the basic tenets of the ASTM practice by conducting an inquiry designed to identify recognized environmental conditions in accordance with commercially prudent and reasonable inquiry.

The following ASTM Environmental Assessment components were not included in the AMEC assessment of Lucas Insertco.

- Detailed historical research ASTM guidelines call for identification of all obvious property uses from the first developed use, or 1940, whichever is earlier. To a great degree, "standard" historical resources (aerial photographs, fire insurance maps, property tax files, local street directories, and building department records, etc.) are not readily available for Puerto Rican commercial properties. As a result, historical research is limited to the information gleaned during interviews of facility personnel.
- Chain of title search ASTM requires examination of property title documents to identify any charge, security, or encumbrance upon the property title to secure the payment of a cost, damage, debt, obligation, or duty arising from cleanup or other environmental response actions associated with hazardous substances or petroleum products upon a property. This effort was explicitly excluded from the scope of services for the Lucas Insertco facility (per the February AMEC Proposal for Environmental & Pollution Liability Assessment, Baltimore, MD. and Puerto Rico).
- Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions The ASTM standard indicates that geologic, hydrogeologic, hydrologic, and topographic information should be obtained to evaluate whether hazardous substances or petroleum products are likely to migrate to the property, or within or from the property, into ground water or soil. Site-specific information on geology, hydrogeology, and conditions of the Lucas Insertoo site and saljacent properties was not readily accessible and thus no conclusions could be made regarding these factors.



REFERENCES SECTION 10

The following agencies, offices, reports, and publications were used as information sources in the preparation of this report.

Analytical data for Paint Sludge (Ignitability, Corrosivity, Reactivity, TCLP Metals, Volatiles, Semi-Volatiles and Pesticides). 15 May 2001

Department of Health, Sanitary License, issued to Lucas Insertco 30 September 2002 (expires 30 September 2003)

Environmental Data Resources, Inc., Regulatory Database Report, Lucas Insertco, Carretera 102 Km 33.2, San German, Puerto Rico, February 25, 2003.

Material Safety Data Sheets for various paints, oils, cleaners used by Lucas Insertco.

United State Geological Survey, Topographic Map, 7.5 Minute Quadrangle, San German, Puerto Rico, 1966, 1952 and 1957.

Waste Disposal Record, Non-Hazardous Waste Manifest No. 81666, Sludge Ink, 900 Gallons, 15 December 2002.

Waste Disposal Record, Non-Hazardous Waste Manifest No. 88410, Lamp Fluorescent, 17 April 2002.



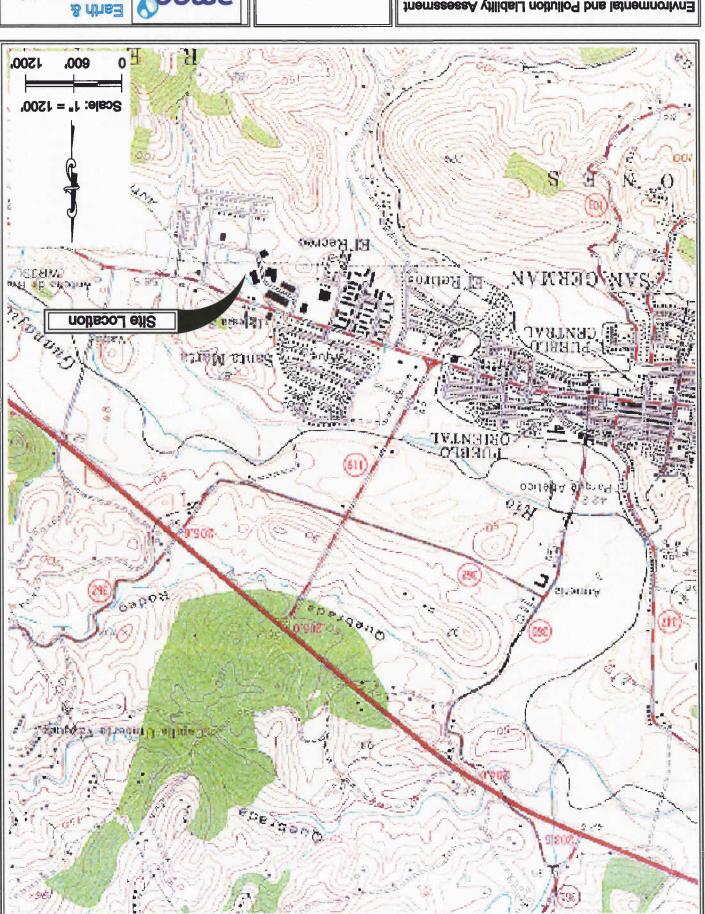
SECTION 11 SECTION 11

The following professional conducted the Environmental and Pollution Liability Assessment at Lucas Insertco. and prepared this report.

Adrian K. Stresow, P.E. AMEC Earth & Environmental

A XIGN3999

LUCAS INSERTCO SITE LOCATION AND FACILITY MAP



Environmental and Pollution Liability Assessment

San German, Puerto Rico

San German, Puerto Rico

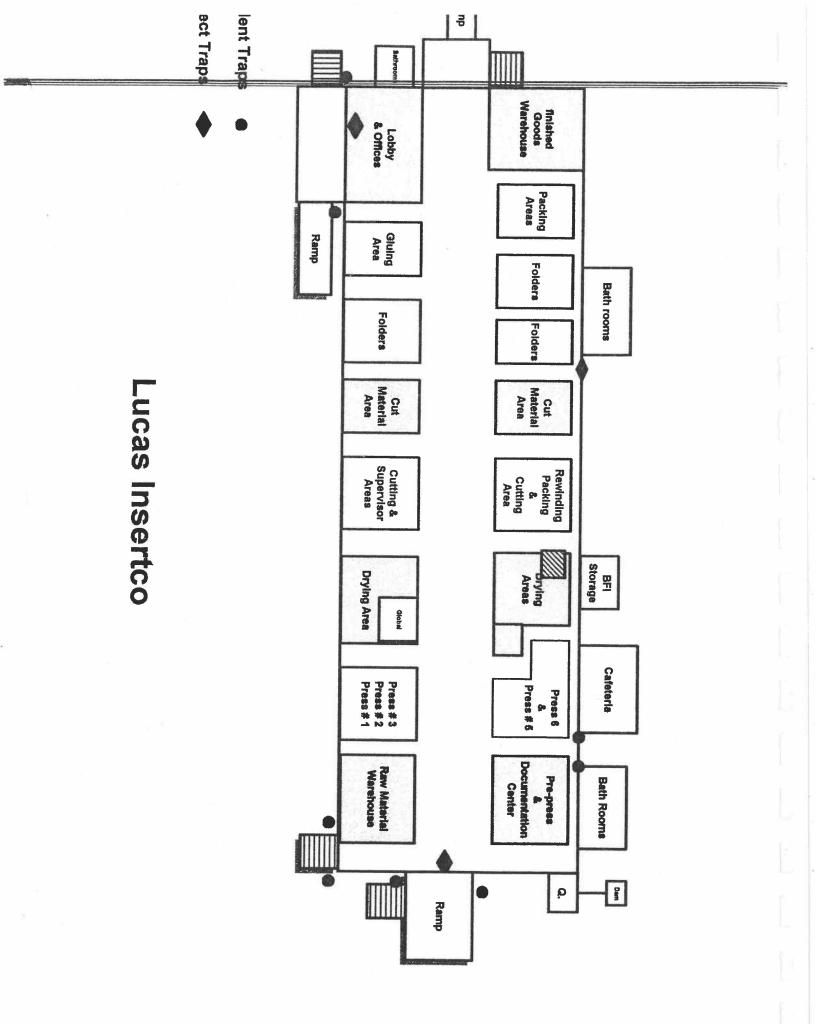
AMEC Project No. 3-717-000041

CHECKED PY: DAWN BY: DAWN BY:

File No.: 6:\2003/0041\03-0041 USGS Map.dwg

Environmental

wosents .A wosents .A



APPENDIX B

SELECT DOCUMENTS PROVIDED FOR REVIEW





May 15, 2001

SAN GERMAN PUERTO RICO 00683

ANALYSIS REPORT

Sample Identification

Sample from LUCAS INSERTCO May 4, 2001 Custody Number 08990 Lab Sample No. 01-1975

MAXIMUM CONCENTRATION OF CONTAMINANTS FOR CHARACTERISTICS OF TCLP TOXICITY

[F6A6]	(M99) jimid	Results (PPM)	Contaminant 000/7000	Waste Number Metals SW60
0.3	10.0	10,0>	Arsenic	D004
0.001	0.20	02.0>	muhsa	D002
0.1	300.0	\$00.0>	Cadmium	D00e
0.3	20.0	50.0>	Сһготіит	200 0
0.3	20.0	50.0>	Гезд	D008
2.0	200.0	<0.002	Метсигу	D009
0.1	10.0	10.0>	Selenium	DO10
0.6	ro.0	10.0>	Silver	DO11



THOUSE REPORT

Sample Identification

Sample from LUCAS INSERTCO May 4, 2001 Custody Number 08990 Lab Sample No. 01-1975

HAZARDOUS CHARACTERISTICS

IGNITABILITY: HAZARDOUS WASTES NUMBER D 001

Sample **does not** exhibit the characteristics of ignitability according to the U.S. Environmental Protection Agency, Manual SW-846, "Test Methods for Evaluating Solid Wastes."

Flash Point, >140°F

CORROSIVITY: HAZARDOUS WASTES NUMBER D 002

Sample **does not** exhibit the characteristics of corrosivity according to the U.S. Environmental Protection Agency, Manual SW-846, "Test Methods for Evaluating Solid Wastes."

Corrosion Rate <6.35 mm/yr

REACTIVITY: HAZARDOUS WASTES NUMBER D 003

Sample **does not** exhibit the characteristics of reactivity according to the U.S. Environmental Protection Agency, Manual SW-846, "Test Methods for Evaluating Solid Wastes."

Sulfide <10 PPM Cyanide Cyanide



ANALYSIS REPORT

Sample Identification

Sample from LUCAS INSERTCO Identified as "Desperdicios de tintas" May 4, 2001
Custody Number 08990
Lab Sample No. 01-1975

MAXIMUM CONCENTRATION OF CONTAMINANTS FOR CHARACTERISTICS OF TCLP TOXICITY

2.0	10.0	ON	Vinyl chloride	D043
9.0	10.0	ΔN	Trichloroethylene	D040
7.0	20.02	dN.	Tetrachloroethylene	D039
200.0	9.0	ΟN	Methyl ethyl ketone	D032
7.0	10.0	QN	1,1-Dichloroethylene	D059
9.0	10.0	ON.	1,2-Dichloroethane	D028
8.T	10.0	ON .	1,4-Dichlorobenzene	720 G
0.8	10.0	ΟN	Chloroform	D022
0.001	10.0	dΝ	Chlorobenzene	D021
5.0	10.0	ON	Sarbon tetrachloride	D019
3.0	10.0	ΟN	Benzene	B10G
			LILES	VOLAT
Regulatory Level	Detection Limit (mg/L)	Results (mg/L)	Contaminant	EPA HAZARDOUS Waste Number

ND = NOT DETECTED.



TRO93R REPORT

Sample Identification

Sample from LUCAS INSERTCO Identified as "Desperdicios de tintas" May 4, 2001 Custody Number 08990 Lab Sample No. 01-1975

MAXIMUM CONCENTRATION OF CONTAMINANTS FOR CHARACTERISTICS OF TCLP TOXICITY

Regulatory	Detection Limit (PPM)	estluseA (Mqq)	Contaminant	PA HAZARDOUS Waste Number
			0728 WS	Semivolatiles
500	8000.0	αN	o-Cresol 3	D023
200	7000.0	αN	losenO-m	D024
200	9000.0	GN	p-Cresol	D056
Er.o	90000.0	ΠN	2,4-Dinitrotoluene	D030
61.0	60000.0	ΟN	Hexachlorobenzene	D035
6.0	60000.0	ΟN	Hexachlorobutadiene	D033
0,8	6000.0	ΔN	Hexachloroethane	D034
2.0	80000.0	ΠD	Nitrobenzene	D036
100.0	70000.0	ND	Pentachlorophenol	D037
0.8	2000.0	ND	Pyridine	D038
00.004	8000.0	ΠD	2,4,5-Trichlorophenol	D041
2.0	60000.0	ΟN	2,4,6-Trichlorophenol	D045

If O-, m- and P-Cresol concentration can not be differentiated the total Cresol (D-026) concentration is used. The regulatory level of total Cresol is 200.0 mg/L.



ANALYSIS REPORT

Sample Identification

Sample from LUCAS INSERTCO Identified as "Desperdicios de tintas" May 4, 2001
Custody Number 08990
Lab Sample No. 01-1975

MAXIMUM CONCENTRATION OF CONTAMINANTS FOR CHARACTERISTICS OF TCLP TOXICITY

710 G	Z,4,5-TP Silvex	ON	3000.0	0.1
D016	2,4-D	dΝ	90000	0.01
невыспр	S SW 8150			
D015	Toxaphene	GN	10.0	6.0
D014	Methoxychlor	αN	0.00025	0.01
D013	Lindane	αN	0.00025	1.0
D031	Heptachlor (and its OH)	αN	0.00025	800.0
DO15	Endrin	αN	0.00025	20.0
D020	Chlordane	αN	900.0	50.0
PESTICIDE	0808 WS S			
SUGARACIOUS Waste Number	Contaminant	Results (mg/L)	Detection Limit (mg/L)	Fevel



SABANETAS INDUSTRIAL PARK • PONCE, PR P. O. BOX 59 • MERCEDITA, PR 00715 TEL. (787) 848-6050 FAX: (787) 848-6299



PARK · PONCE, PR
DITA, PR 00715

CUSTODY # 08990

	Wolk	ustomer Signature	boulles	Selfob estaus		1	/									al	1925 5	. Sample No.	ntainers:	nple Matrix:	servation:	mple Type (No. of Cont.)		stomer Name
0	and in	ature	Sund (gyby: (Signature)				/	1								10-51	Date	Sterile	Ilquid	100	o. of Cont.)	FES	
	how	S	Chada	(e) use of													00100	Time	Plastic	Solid	H,SO,	3 Grab	Neward Hes	Luccas INSERTOS
		Date:	1005-034 AS	Date:										1		- 1	Desparations of	Sample Description	Glass Vials	Sludge V Oil	HNO, Na OH	O Composite Turnaround Time	7	305
	1	Time:	10:10	Time:													Twias	Š	Others	Air	Others	d Time		
/	Vergene	Received at		Delivered to Lab.	,	Comments:	Dissolved Oxygen	Temperature	Hq	Flouride	Cyanide	Conductivity	Color (ADMI, PT-CO)	Colillorm (Fecal /Total)	COD	Chloride	Carbonate	Bromide	BOD-5	Bicarbonate	Asbestos	Ammonia	Alkalinity	Acidity
,	a dentey	Received at Lab. by: (Signatury)	Se Se	Lab. by: (Signature			Sulfide	Sulfate	Dissolved Solids (TDS) Chromium VI	Silica	Suspended Solid (TSS)	Solids Total	Sett. Solid (Mg/l, ML/l)	Phosphorous Total	Phenol	Ortho Phosphate	Oil & Grease	Nittate & Nitrite	Nitrite	Nitrate	Moisture	lodide	Hardness	Residual Chlorine
	5/4/2		201- May-2001	Date:			Copper	Cobalt	Chromium VI	Chromium	Calcium	Cadmium	Boron	Bismuth	Beryllium	Barium	Arsenic	Antimonium	Aluminum	Turbidity	Тос	TKN	Surfactant	Suffite
	4		V-2001				Vanadium	Titanium	Tin	Thallium	Strontium	Sodium	Silver	Silicon	Selenium	Potassium	Nickel	Molybdenum	Mercury	Mangnesium	Manganese	Lead	iron	Gold
	Per	Time:	028	Time:				Others	Dioxin		тох	TPH	PCB's	втех	Bertzene TCLP	herbicidesTCLP	Pesticides TCLP	Semi-Volatiles TOCP	Volatiles VICLP	Metals TCLP	Reactivity	Corrosivity	Ignitability	Zinc

Material Safety Data Sheets

Product Name / Manufacturer Name

11767 3M DUPLICATOR FOUNTAIN CONCENTRATED

ME

11166 3M NEGATIVE COLOR PROOFING FILM HAND DEVELOPER

ME

ET DOBONT DE NEMOURS & CO., INC., POLYMER PRODUCTS DEPT. 11819 CLYSAR SHRINK FILMS

AVA SON KOKYT DALCH BKINLING INK LYCLOKIES 11962 CMT OIL BYSE BLUS COLORS

and of the DEAT OBER

HOECHRA CELANESE CORP., PRINTING PRODUCTS DIV. 11967 COLORLINK DEVLOPER

11828 CRYSTAL SF2000 F.S.

CBC INDUCTRIES, INC.
11769 ELECTRICAL GRADE SILICONE AERO

EVZLWYN KODYK CO.
11851 KODYK YGNY-IWYGE NEGYLINE DENEFOBOEK HYND

EASTMAN KODAK CO.

11822 KODAK AGUA-IMAGE NEGATIVE DEVELOPOER MACHINE

10202 KODYK PIÓNID DEVELOPER SYSTEM CLEANER

EASTMAN KODAK CO.

11968 KODAK POLYMATIC PLATE FINISHER

94 LOTION SOAP

8993 LPS PRECISION CLEAN

GO-JO INDUSTRIES, INC.

TES LABS., INC. 6428 PRESOLVE AEROSOL

VARN PRODUCTS 11957 METERING ROLLER CLEANER 02019

SPARTAN CHEMICAL CO., INC. 11942 NABC URINAL SCREENS WITH DEODORIZING BLOCKS

SUPERIOR PRINTING INK CO., INC. 11823 OFFSET SOY ROTARY / BUSINESS FORMS

SUPERIOR PRINTING INK CO., INC 11960 OPEN POCKET COMPUND HW-54

11956 PERMANENT BLANKET REPAIR 02290

VARN PRODUCTS

VARN PRODUCTS 11955 REVITOL 02220

BOW SOLDER PRODUCTS CO. 11966 ROSIN CORE SOLDER

SUPIRIOR PRINTING INK CO., INC. 11929 SUPER JELL COMPOUND 8124

VARN PRODUCTS CO., INC 11958 WASH V-120

VPPENDIX I

VAN PRODUCTS CO., INC **AEROSOL ANTI-STATIC SPRAY**

YEKOSOL INK READI

AVRN PRODUCTS CO., INC.

VARN PRODUCT CO., INC. COMPLETE PLATE CLEANER

INTERTAPE POLYMER CO. EXEITMETUS (SHRINK FILM)

EXXON MOBIL CHEMICAL COMPANY **GEN AGI**

VARN PRODUCTS CO., INC **MEB-bKO 318**

VNCHOK LITHKEMKO, INC MASH R-228

VARN PRODUCTS CO., INC

TOTAL CHROME FREE

H.B. FULLER CO. (551210) PR-3755

H.B. FULLER CO. (55110) PR-0187-EB

LASTRA PLATE GUM LGO 1030

VARN PRODUCTS CO., INC NON-PILLING ADDITIVE

NORDSON CORPORATION NACOR 38-4536

H.B. FULLER CO. (55110) 61S-7

REC.#495082 18/07/02 02/03/123

DEPARTAMENTO DE SALUD SECRETARÍA AUXILIAR PARA SALUD AMBIENTAL



LICENCIA SANITARIA

Departamento de Salud

PUEBLO:	SAN GERMAN		LICENCIA	LICENCIA NUMERO:	623	
REGION:	ORSTR	earnes (in each control of an object	EXPEDIDA	EXPEDIDA: 30 DE SEPTIEMBRE DE 2002	TIEMBRE DE	2002
POR LA	PRESENTE SE	POR LA PRESENTE SE AUTORIZA A		LUCAS INSERTCO PRINTING CO 39181-3266	LING CO	39181–3266 A
OPERAR UN		INSERTOS/IMPRENTA (Clase establecimiento	RTOS/IMPRENTA (Clase establecimiento, negocio o institución)	institución)		EN ESTA CIUDAD,
DIRECCION:	POR. IND.	IND. RL RETIRO, CARR. 102, KM. 33.2, SAN GERMAN	R. 102, KM.	33.2, SAN G	RMAN	
SUJETO A LAS LEYES Y	LEYES Y REG	LAMENTOS VIG	ENTES DE	L DEPARTAM	ENTO DE SA	REGLAMENTOS VIGENTES DEL DEPARTAMENTO DE SALUD O A LOS QUE EN

DEBE RENOVARSE EL 30 DE SEPTIEMBRE DE 2003.

ADELANTE SE DICTAREN. ESTA LICENCIA ES INTRANSFERIBLE Y REVOCABLE POR JUSTA CAUSA.

ADVENTENCIA:

Colóquese esta licencia en sitio visible del establecimiento. Al cesar operaciones devuélvase esta licencia a la Oficina Local de Salud Ambiental.

ORICIAL D SUPERVISOR DE SALUD AMBIENTAL

BROWNING-FERRIS INDUSTRIES

				SND COPY	яотаязиз	02518 = 2005/01 - 191/50
100	(ed unuon		5	gnature)!S	Printed / Typed Name /
	4.1	.et medi ni t	except as noted	tsetinsm sint yd berev	oo alahatam	20. Facility Owner or Operator: Certification of receipt of waste
5-7 6-7 8-7	bo	8-110				F F Discrepancy Indication Space
левд А	(RO AlrioM			gnature	is	T 18. Transporter 2 Acknowledgement of Receipt of Materials R Printed / Typed Name
AMON A	(80 AthoM	الىنى	deo	gnature Coak	is 7	S Transporter 1 Acknowledgement of Receipt of Waterials Printed / Typed Name O D Table 1
Z ()	Vaste.	suobrasal to lasoqeib her	load Bulluodes sos su	onative for recent regulation	To Print the Control of the Control	16. GENERATOR'S CERTIFICATION: I certify the materials above on Printed / Typed Name
						nothermoting landitions and Additional Information
						b. Additional Descriptions for Materials Listed Above
79	00	6 20-	7	S/L29Y11749	150+0	STADGE INK
WW.	St. Total Vignent	Containers	SI ON	epo	BailbasH	11. Waste Shipping Name and Description
		92 77-148-787		8900-WS		PONCE SANITARY LANDFILL PO BOX 7104 / RD 500 BARAMAYA FINAL AVENUE PONCE, PR 00731
	ts	0 //# s by	A Transponer B. Transponer G. Facility's PI	- 7£00-1	6. EQB Perr 8. EQB Perr 10. EQB Per	5. Transporter 1 Company Name DIAS TRANSPORT 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address
		NGERTCO NA 33.2 NA 33.2	SVM OES ED 105 FOGVS I			LUCAS INSERTCO 4. Generator SAN DOR SAN P. R.
		Pass Code:	2. Page 1 of Generating Lo	Manifest Document No.	ON OI AG	NON-HAZARDOUS 1. Generator's Uame and Mailing Address

BROWNING-FERRIS INDUSTRIES

Lead Athorn S	J ?	intengis 17	Printed / Typed Name
.et mail ni ba	except as not	sterials covered by this manifest	20. Facility Owner or Operator: Certification of receipt of waste m
(25ph9) pofin	De ve	19. Discrepancy Indication Space	
Vad ritinoM V		antiengis	emsM beqvT \ betnin9.
	Marie	// //	18. Transporter 2 Acknowledgement of Heeeipt of Materials
World Month Day	77	Signature	Perinted Value Volume
1 1 124	0		17. Transporter 1 Acknowledgement of Receipt of Materials
Moonly Day	F	Signature	Printed / Typed Name
roper disposal of Hazardous Waste.	iq gaimoqer tot anoi	s manifest are not subject to lederal regulari	16. GENERATOR'S CERTIFICATION: I certify the materials above on this
S. E. L.	Par la		notismotal Isanditions and Additional Information
EIVED	1.0		b. Additional Descriptions for Materials Listed Above
			9
Type Quantity V		030403\F58X5534	lamp fluorecent
Containers 13. Type Quantity V	SI	Handling Code	11. Waste Shipping Name and Description
GLLL-148-787		8200-MSA	PONCE GANITARY LANDFILL PONCE, PR 00731 PONCE, PR 00731
Phone	C. Facility's I	EQB Permit #	9. Designated Facility Name and Site Address
	B. Transporte	8 Transporter & Company Name	
	A. Transporte	Thansponer 1 Company Name	
Inmerteco 192 Km 33,2 Srman, PR 00683	gan Ge	3 Generator s Marine Matting Address 5 D. Box 377 5 San German, 28 00683 4 Generator s Phone (767 892-2828	
Pass Code:	ìo	A ID No. Manifest Document No.	MØN-HÄZARDOUS 1-Generator's US EPA

APPENDIX C LUCAS INSERTCO TROGASE REPORT

San German, PR 00683 Lucas Inserteo Carretera 102 Km 33.2

11,4191590 :19dmuN griupal

February 25, 2003

Data Risk Management For Environmental The Source

3530 Post Road Southport, Connecticut 06890

Nationwide Customer Service

Internet: www.edrnet.com Telephone: 1-800-352-0050 Telephone: 1-800-352-0050

Physica! Setting Source Records Searched. Physical Setting Source Map Findings. Physical Setting Source Map Physical Setting Source Summary Physical Setting Source Addendum

Government Records Searched/Data Currency Tracking.

Overview Map..... Exacutive Summary.....

GEOCHECK ADDENDUM

SECTION

Dischimate Consequence without Limitation, special, indicate the Consequence Copyright and any angle and angle angle

Елкте солвелу врам ула си освоиосу и речовев и врамене и поста в весемен и постои постои и в 800 година речита От туми о воу герой си тор и Етитипелия Пай Вазоисов, ис. от из вийв**ая, и** угодивис милом опос истью решти, ил

ED8 and the edf ogos are trademars of Environnenial Data Resources, Inc. or its afficiales. All other traden arks used herein are the property of their respective owners.

100931914 11 Fage 1

1-85

99A9

EXECUTIVE SUMMARY

Rodenlicide Act)/TSCA (Toxic Substances Contro. Act)	
FIFRA I SUA Tracking System - FIFRA (Federal Insecticide, Fungicide, &	FILS
Section 7 Tracking Systems	2213
Toxic Subatances Control Act	TacA
Toxic Chemical Release Inventory System	TRIS
RCRA Administrative Action Tracking System	STAAR
PCB Adinity Database System	PADS
Federal Superfund Liens	NPL Liens
Mines Master Index File	MINES
Material Licensing Tracking System	WLTS.
material printings notemporal states and section and sections are sections and sections and sections are sections are sections and sections are sect	нина
National Priority List Deletions	Delisted NPL
Hecords Of Decision	KOD

Everagency of shorted board backboards of ledges of Ledges of Deptis Electron trave been determined from that SC Ledges of Memory or a redistrict of contracting the state of these productions of a side with an every less of these productions of a side will not every one case to the state property about the product of the side of реширов ежем зеля билиполис

Setedateb elditium ni ene ealiei biod ni beteil setie.

SURROUNDING SITES: SEARCH RESULTS

numappaise (orphan) sites are not considered in the foregoing analysis.

RREIS: The Resource Conservation and Recovery Art database includes selected information on ellos generales, solores results as defined by the Act The source of this calculations waste as defined by the Act The source of this calculation. DEAGNATE MIZA JARGES

searbbA A review of the RCRIS-SQC ifst, as provided by EDR, and dated 09/09/2002 has revealed that there is 1 RCRIS-SQC after within approximately 0.75 miles of the target property

49 CALLE SAVILLA AUTO PIEZAS LUGO

FEDERAL ASTM SUPPLEMENTAL

Equal/Higher Elevation

FINDS: The Facility index System contains both facility information and 'pointers' to other sources of information that are counted for the containing the containing the counterpart of the containing t

EXECUTIVE SUMMARY

gersuces tedneared by the user. A besure and a previous the state of the second of the second of the second sec

ADDRESS TARGET PROPERTY INFORMATION

SAN GERMAN, PR 00663

COORDINATES

Payinge (Moch): Duyersai Transerse Men Duyersai Transerse Men DIM X (Me(ext):

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY 18 078600 - 18 4 43 0" 18 078600 - 67 1' 52 7" 18 078600 - 18 4 43 0"

gonice: 1stder Stobeuty:

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

A/N xobní beup nim č.7 803U

who compared also were found in EDMS, search of switching E 1527-00 search radius around the target records either on the farget property or within the ASTM E 1527-00 search radius around the target and the compared to the

SMHS	tel 21 109 30 topolog and and tell 216 Mag a methier top apob etets aid I
GRADNATE MTEA STATE	
EKNR	Emergency Response Notffication System
HCHI2-FOG	Resource Conservation and Recovery Information System
ИСКІЗ-13D	, Rescurce Conservation and Recovery Information System
CORRACTS	Corrective Action Report
CERC-NFRAP	System CERCLIS No Further Remedial Action Planned
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information
MN pesodoid	Proposed National Prichity L.s. Sites
JdN	Izu yinong lanohek
FEDERAL ASTM STANDARD	

TOCGOST 14 FXECUTIVE SUMMEN'S

Superfund (CERCLA) Consent Decrees CONSENT FEDERAL ASTM SUPPLEMENTAL

1 352/1 - b/1

nio / Jeio

eBed OldeM

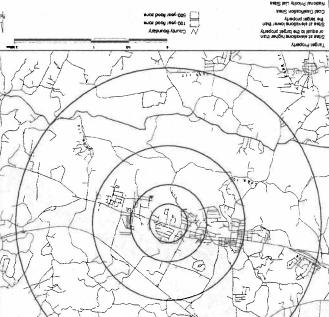
YTRBOPET PROPERTY: SEBRESE: CATYEVEN: LATALONG:

CUSTOMER: CONTACT: INQUIRY #:

TARGET PROPERTY: ADDRESS: CITYSTATE/ZIP: LATA.ONG:

Sizes at elevations higher than or equal to the target broperty

AMEC Earth & Environmental Addison Seasow 10931914.11
February 25, 2003 12:44 pm



OVERVIEW MAP - 0931914.11 - AMEC Earth & Environmental

43 CALLE SAVILLA

EXECUTIVE SUMMARY

*zeibbA

AUTO PIEZAS LUGO

Equal/Higher Elevation

E VEAMMULE SWILLDING 1/1/16:50/007

CALLE S

DETAIL MAP - 0931914.11 - AMEC Earth & Environmental

(s)essdate(

AMEC Earth & Environmental Adrian Stresow 0931914.11 February SS, 2003 12:44 pm

CUSTOMER: CONTACT: TACHTE: TACHTE:

PES BOYS MANNY MOE & JACK THE \$907

ESSO STRANDARD OIL CO. PR CO. TR

ESSO CO ROSINGS-GOG, FINDS
SCRIES-GOG, FINDS
ROSINGS-GOG, F WEERY

WINDORLAINT

Due to poor or inadequate address information, the following sites were not mapped

emel. st.2

1 382/1-1/1 Wap ID Page Pig / Isig ENVIRONMENTAL MANAGEMENT SERVICES A review of the FINCS lat, as provided by EGR, and sated 10/10/2002 has revealed that there is 1 R MCS atte within approximately 0 5 miles of the largell property

EXECUTIVE SUMMARY

1C0931914 1r Page

> TP = Target Property ACUIFLOW - see EDR Physical Setting Source Addendum SELON COUSENT POD Colsisted UPL PINDS MINES MINE 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 0 200 1 200 222222222222000 55555555555555c FEDERAL ASTM SUPPLEMENTAL C AW 6 0 0 State Haz Waste LUST UST A!V: 0 STATE ASTM STANDARD NPL
> Proposed NPL
> Proposed NPL
> CERCURS LG, Guen, Gen
> RCRIS LG, Guen, Gu 0 200 0 200 5 000 5 000 5 000 5 000 5 000 5 000 EEDERAL ASTM STANDARD 1 < 1 - 5/1 2/1 - 1 Search Distance (Mes) Property Target Catabase

> > YAAMMUS SONIGNIE 9AM

1.00831914 1F Page 4

D MANT

B MAN SERVICE TO CONTROL OF THE TO CONTROL OF THE TO CONTROL OF THE TO CONTROL OF THE CO TO CULF #62

ST SHELL

STATE SH 9 GARAJETEXXAS 9 PREPA 7 CHIN SHELL 7 ISSO CO-372 8 GUE # 163 9 DIGITAL 9 PLP BOYS MANNY 5 CHUPERVISION P 3 ESSO CO 3/1

8 FM MJUŠTRIAL

8 ESSO STANDARD DIL CO - PI

6 COTO SIS

6 COTO SIS

6 GOMERA DEL DESTE ENSIGER 384 MANNY MOE & JACK THE 1907 SION PHARMACEUTICALS INC PR CO-372 SIRM AGRINS

SIRM AGRINS

CALLE UNION 18

CARR 114 AND 114

CARR 1 2/39

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3)

(1006/3) Declaration in the control of the co FINDS FINDS FINDS FINDS HUDS ROTES S NA = This State does not maintain a SHWS list. See the Federal CERCLIS list. Sites may be listed in more than one database NR = Not Requested #1 this Search Distance

CERCLIS-MERAP: CERCLIS No Further Remedial Action Pillanes of Section Pillanes of Memory (MERAP) to CERCLIS-MERAP: CERCLIS-MER Source (Ref. 102-113.0223)

Eleghoner 102-113.0223

Eleghoner 102-113.0223

Eleghoner 202-113.0223

Eleghoner 202-113.023

Eleghon Date of Data Amival at EDR 11:04:02 Elapsed ASTM days 35 Date of Lest EDR Contact 02:04:03 Database Release Frequency Semi-Annually Date of Covernment Version: 10/24/02 Date Made Active at FDR: 12/09/02 A'N enorquia Proposed MPL: Proposed National Priority List Sites #PA Region 4 Telephone 404-562-8033 EAA Region 8 1dephone 303-312-6714 8142-416-214 Seqion 3 8142-416-214 Sequent

Date of Data Arrival at EDR 11/04/02 Elepted ASTM days 35 Date of Last EDR Content 02/64/03

6883-888-415 anortane i

Date of Sovetnment Version 10:24/02
Date Made Active at EDR: 12/09/02
Date Made Release Frequency, Semi Amuelly W.Y. working the set (10,10) sees (10,10) sees to state of CEPICL'S and scientifies over (1,20) sees for monty sets the sharpest of CEPICL'S and scientifies over (1,20) sees to state of PICL's state of PICL

MPL: Natonal Priority List Source EPA

PEDERAL ASTM STANDARD RECORDS

t noige8 A93 6411-818-716 enorigeleT

Sources: NPL Site Boundaries

EPA s Environmental Photographic Interpretation Genter (EPIC) Telephone, 202-564-7333

nemerupen gassagu yeb-06 erti steesse so steem troger RUB sich notismitions sebivorg is yeb MTSA beags13 brancista MTSA bet in the MTSA beags13 brancista MTSA erti io

To maintain currency of the following federal and state databases. EDR contacts the appropriate governmental agency on a monthly or quartenty basis, as required

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

1C0831814 IL L 43# 2

RCRIS-SOC 1001485858

EDR ID Number

(stesporte)

FINDS Chart Pestreal Envarance (PRS) Resource Conservation and Recovery Aut information s-stem (I)DRAINED)

Classification Small Quantity Generator
Used Oil Recyc. No
TSOF Activities Not reported 9AFAEL LUGO (787) 892-2175 Contact AUTO PIEZAS LUGO ALTO 10000879 01 AS3

puno, suotetou on satels noticion

SAN GERMAN, PR 00683 ODU J SASSING OTUA

Coal Gas Site Search: EDR does not presontly have coal gas site information available in this state.

0)stance Oistance (ff.) 2 notaved3

Ol qrif.i

SOMIONIA HAD

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

make? (particupal fearona) 2.98 DIVAN 5-action 2.00 COLO 34 1916 (DC) 2.00 services of the action of the action of the FPA link collects date of the generalization of the action of Date of Coventrated Version: 12.31/01 Date Made Active at EDR, 07/15/02 Date Made Active at EDR, 07/15/02 Date of Data Amval at EDR, 07:02:02 Elapsed ATAM days 13 Date of Lest EDR Contact 97/27-03 brand, selection of when the context brand shares the context of t ERNS: Emangency Response Notification System Source National Response Center, United States Coast Cliard Telephone, 202-250-3342 S0:00 00 norienty treamment to be one of a solid or the orien of E03 to evite had sheet et a control or sedese Database Resease Frequency Varies Date of Data Arrival at EDR: 09:24,02 Elapsed ASTM days 34 Date of Last EDR Confact: 12/20/02 Resource of conservation and Recovery information 5/54m RSRIS includes selective information on a wate whost generates the interpretation of a selectivity and recovery information 5/54m RSRIS includes selective information and Recovery Act (RCRA) RCRIS: Resource Conservation and Recovery Information System Source EPANTIS Telephone 900-424-93-48 Telephone 900-424-93-48 Respinore 900-424-93-48 Recordery Information System ROBIS Date of Date Armel at EDR, 10:15/02 Elapsed NTEA days 72 Date of Lest EDR Confect 12:09/02 Date of Government Version, GSC9002 Date Made Active at EDR 12/26/02 Date Made Active at EDR 12/26/02 CORRACTS. Concasts a steps of each of Date of Covernment Version, 12,13,02 Date Made Active at EDR, 01415/03 Date Release Frequency Counterly

moutused OOA in transing OOA of OOA o

Date of Government Version IVA Database Release Frequency Vanes

election (2.5 Sec. 26.2) and the second of the supplied to the second of the second of

Four distributions Control Act (for Substances Control Act

size Revease Inventory System. TRIS identifies lacifibes which release toxic sheriscals to the air, water and land in reportable quantifies under SARA fille III Section 313.

A3GO thom be used another internocional non-best discovers matures 21AHz, makely garbers in modes constrainment A9G. More reported by A93 and up Agount anotice, ole one another sentitive soft another inter another in general management of a major like. A93 and up Agount another ole one one of the major sentitive soft another internocional properties 21AAG and from each 26GO to homologic but no expense of another internocional properties and another i

PCB Activity Database. PADS identifies generators transporters, commercial stoners and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

COVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PETRO NEW FERON YSOAT Tasking Spritter | FFRA, federal inscotlores, fundandes & chodens and state Substances Control Act)
For Superior SPA
For

Source EPA

Source EPA

Agence EPA

Date of Government Version 10/24/02 Database Release Frequency Quarterly

Date of Government Version, 12/31/36 Datebase Release Frequency, Every 4 Years

Date of Government Version. 12:31:00 Database Release Frequency: Annually

TRIS: Toxic Chemical Release inventory System Source EPA.
Talephone 203-263-1551
Talephone 203-263-1551
Toxic Belease Inventory System, TRIS identifies

AATS: RCRA Administration Action Tracking System Source EPA Talescone 202-564-4104 Talescone 202-564-4104

Data of Government Version, C9/20/02 Database Release Frequency: Annually

Date of Covernment Presion 10/15/91

PAGS: PC8 Activity Database System Source EPA Telephone 202-364-3887 PCB Activity Database PAGS identifie

CONSENTE: Superhard (FORTIAN) Consent Decrees

**Superhard (FORTIAN) CONTROL OF SUPERHARD STATE (Superhard price Adelessed Telephone William) Superhard (FORTIAN) Superhard Proposed Pr

Database Release Frequency Biennially

Date of Next Schedured EDR Contact 03:17:03

FEDERAL ASTM SUPPLEMENTAL RECORDS

Date of Data Amval at EDR: 12/26/02 Eugesch ASTM days 20 Date of Leaf EDR Confact 12/26/02

helither of boroutions earthous addations, sphillibut much beamatido need splinamentoberg zear hoogs; stid in bamatinoo noxisemelin an'il y theographia leed. Hoogs and in operations and reason and east need see decreases entirely, mack y theographia and small makes bright as the many theoret in reason through the olds hook and my decreated you have now and inchessed, on such one and inchessed to exempt the pression of the properties of the

testification Storage and Facilities bosos presenta frommenta Source Source 5008-787-787 anortales i

What is decreased however being a series of the series of

Service "By "The state occes not maintain a SMMS" list See the Fadval EERCLIS sist candinated of Superior "The state of Superior "Superior "Super

FTTS: FIFBALTSCA Tracking Systam PFIRBA, Faderal Insecsions Fungacés & Bodenfactes Activities of Substances Control Act)
Indepture & SPAD/Face (Freembor, Paricodes and Yord Substance)
Indepture & State & Substance (See and Proceedings of Substance)
Indepture & Substance (See and Procedings of Substance)
Indepture & Substance (See and Procedings of Substance)
Indepture & Substance (See and Procedings of Substance)
Indepture & Substance & Substance (See and Substance)
Indepture & Substance & Sub

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WP LIERS & Peard Supportant Least United the supportant Least Supportant L

NLTS: Makenial (Inerneut St. 1946) and System nonestermony of the properties of the content of t

TOO of behage incident liquies in the such search and some setting the property of the such seasons are such seasons.

response, to consists both sizely utilized and provision of consists but arising the consist of consists of consis

RELIGION HELL, Wabony Picurity Let Detactors

All Source

ALL September 19 And retained Substances Pathlon Contragercy Plan (MCP) setablishes the united that the third set of the setablishes the united and retained Substances Pathlon Contragers to detect set one treat the setablishes that the setablishes are to detect the setablishes that the setablishes the setablishes that the setablishes that the setablishes the

EDK PROPRIETARY HISTORICAL DATABASES

Pormet Membratened data (Cools (Bas) Sillar). The retentions build-channer of Cools and Strate (Browdend avtit connect (BSI By Pelas I Property Scient, 100, Coolsyngari 1980 Reset (Poperty Scient) (Poperty Scien

Date of Government Version 03.01602 Date Made Active 34 EDR 07/05/02 Database Release Frequency: Semi-Annually

Defenses Belease ECB' 01/02/05
Dete of Covertiment Astron. 03/04/05
Dete of Covertiment Astron. 03/04/05

AW Government Insertion of the ROB No. AM 1909 Its evides the Male Observed AW Northead Persons Replace Release Persons Inserting No. AM Northead Research N

SURCORNE OF PUERTO RICO ASTM STANDARD RECORDS

Date of Sovernment Version (9410/02 Dates Release Frequency Semi-Annually MINES: Mines Master Index Fão Source: Department of Labor, Mine Salety and Health Administration Fource: Department of Labor, Mine Salety and Health Administration

Date of Covernment Version, 10,21,02 Database Release Frequency Guardetty

HMIRS: Hazardous Maverals Information Preporting System Source: U.S. Department of Transportation Steparone, 202, 365-4355

PINDS: Facility Index SystemPrantity identification initiative Program Summany Rapoxt Socroe EPA Telephone VEA

Data of Government Version; 10/10/02 Database Release Frequency, Guarletty

Date of Soverment Version 12/21/01 Database Release Frequency Annually

Date of Covernment Version: 10 Z4.02 Database Release Frequency: Cuartedy

Disclaimer Provided by Real Property Scan, Inc.

Date of Data Amval at EDR, 06/11/02 Elepsed ATEM Vays 24 Date of Leaf EDR Contact 11/25/02

Date of Data Artival at EDR, 06/11/02 Elapsed ASTM days 24 Elapse of Leaf EOR Compact 11/25/02

AW ROB is levint, etc. O to see O to see O to see O to see NT 24 beage! SOSMED to see O to se

Date of Last Scheduled EDR Contact 03/24/03 Date of Next Scheduled EDR Contact 03/24/03

Date 14.8st EDR Contact 07.03/03 Date of Next Scheduled EDR Contact 03:31/03

Date of Leat EDR Corrisot 01/05/03 Date of Next Scheduled EDR Contract 04/07/03

Date of Last EDR Contact 01/23/03 Date of Next Scheduled EDR Contact 04/21/03

Date of Next Scheduled EDR Contact, 04:07:03

Date of Last EDR Contact, 02/04/03 Date of Next Scheduled EDR Contact, 05/05/03

Date of Next Scheduled EDR Control 04:07:03 Date of Next Scheduled EDR Control 04:07:03

100931914 1r Page 33-3

Date of Last FDR Contact: 01:21:03 Date of Next Scheduled FDR Contact, 04:21:03

Date of Next Scheduled EDR Contact, 03/24/03

Date of Leat EDR Contact: 12/10/02 Date of Next Scheduled EDR Contact: 03/10/03

Date of Last Scheduled EDR Contact, 03/24:03

Date of Next Scheduled EDR Contact: 03:10:03

Date of Last EDR Contact 02/10/03 Date of Next Scheduled EDR Contact 05/12/03

Date of Next Scheduled EDR Contact, C2:2403

HYDROCECLOCUC INFORMATION

HYDROCECLOCUC (INFORMATION

HYDROCECLOCUC (INFORMATION

HYDROCECLOCUC (INFORMATION

HYDROCECLOCUC (INFORMATION CAN INFORMATION OF WAIRS ON a specific site, can offen be an including or script of groundware flow develop in the numeral site area. Such Thydropologic information can be used to assist that of groundware flow develop in the numeral operation of groundware flow develop in the numeral operation of the property of the prope

NWI Quad at Target Property
NOT AVAILABLE

NATIONAL WETCAND INVENTORY

Additional Panels in search area:

Flood Pisin Panel at Target Property.

Target Property County SAN GERMAN PR

FEMA FLOOD ZONE

FEMA Flood

Electronic Data

YES - refer to the Overview Map and Detail Map

WWI Electronic Data Coverage YES - refer to the Overview Map and Detail Map

97070000007

72000002058

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

HYDROLOGIC INFORMATION

HYDROL

Source General Depopubly carbon transfer and teamines been determined by Source General Depopubly carbon transfer and absolute passes of bronte and strained and a set of the se

Target Property:

eldsm.matebnU GENERAL, TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

AVM Source: USGS 7.5 min quad index

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE.

POPOGRAPHIC WHICHEAN TOW.
Surface topography may be indicative of the direction of surfacial groundwater flow. This information can be used to Surface topography may be indicated of the direction of the inspect of reactby contaminates or, assist the environmental professional in forming an optiming an optimized or inspect of reactby contamination exist on the larget property, what downgradient sites might be impected.

GROUMOWRFE FLOW MISCROTTON INFORMATION

GROUNDANG WAS defined for a particular selection of concept of contract to the contract of contrac

GEOCHECK" - PHYSICAL SETTING SOURCE SUMMARY

0-HC 9069 11,416166001

£ 2003 Geographic Data Technology, linc , Rel 07,201. This provisor contains physiolary and confidential property of Geo Data Technology, linc, Unauthorized use, including copying for other than testing and standard beckup procedures of this p

STREET AND ADDRESS INFORMATION

WW: National Wetlands Inventory. This date, available in select country are country, was obtained by EQS (with most specific country). This date, available in select country in 2003 from the U.S. fish and Wildlife Societic

Flood Zone Data: 11st data, available in select counties across the county was obtained by EDR in 1999 from the Peceral strong book zones as defined by ERMA.

Windbarke Koncry one zmarger entrum midder sheld out on brothost en such service benefit in grant of a configuration of the chapter of the property of the chapter of the c

come of the planning the produced wave and electrical variantselved in large extracted from the Brancherishing calegory including some as 500,000 case where it was extracted from the Brancherishing cale of the State of the Sta

Depending on the geographic sines covered by tits report, the data provided in these specially debibsers may occur by the choice and make a force not reveal has desirance in the season covered by the choice and in the access covered by the choice and in the access covered by the choice and the access and the contract of the access covered by the coport.

(c)acabatau xanto

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

mewnat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, atc. Depth to water table .5 to 7 feet. 20il Drainage Class:

Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer. Hydrologic Group

sifty day loam Soil Surface Texture. corozo Soil Component Name:

The U.S. Operation of the Conservation Conservation Care (ISCS) and a the National Cooperative Soil Survey (ICCSS) and a responsible for observation can maintaining and sambuling soil survey information Consulation was been careful to the Cooperation of the Cooperation of soil patients in a landscape. Soil maps for STATSCO are compiled by generalizing more activated (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSCO date.

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

vgc/osb, calwide L.W and but A 3 \overline{A} , ned unto B 3 or showing M. B. Solikon and with the RM A 5 B 1 B 2 B 3 B 3 B 3 B 3 B 4 B 6 B 7 B 6 B 6 B 7 B 6 B 7 B 8 B 8 B 8 B 8 B 8 B 9 B 8 B 9 B

N/A (decoded above as Era, System & Series)

нис энчалетаяте изов

GEOLOGIC AGE IDENTIFICATION

Geologic information can be used by the environm at which contaminant migration may be occurring beaqs evitetenent fuods nomigo as garmot in lanoissetora isinem GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

GROUNDWATER FLOW VELOCITY INFOORMATION

GROUNDWARF WAS ARROWN SAND-y-gravely types of soils than eight of electricity of quality of the soil information. In general, contaminately burness or consecutive velocity in the presentation for the soil of the contraction of the contract

Mot Reported

EDR has a baseloped the AQUIFLOW information System to provide data on the general direction of groundwater flows at special forms, as taleted rates and has a statement of which the data of the reads of the isport, groundwater flow direction as determined hydrogeologically, and the depth to waiter the provided provided the statement of the provided provided provided the provided provided the provided provided provided the provided provided

Search Radius, 2 000 Miles.

- MOJIELOW -

Code:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LC0831814 1: E88e V 1

Groundwater flow divention may be impacted by surface icpography, hydrobogy, hydrogeticgy, characteristics of the secular of many be impacted by surface icpography makes the environmental professional in ECRIS decolosed. Physical Serio Grounds Addendum is provided to search the environmental professional in forming an opinion security in impact of potential contaminant milgrafon.

Groundwater flow direction, and
 Groundwater flow velocity.

Assessment of the impact of contaminant migration generally has two principle investigative components

EDR's GeoCheck Physical Setting Source Addencum has been developed to assist the snvironmental probasional and geocheck and geocheck properties of propertie

Lauluda (Norlh): Longiluda (West): Universal Tranvers UMY (Meters) UMY (Meters)

TARGET PROPERTY COORDINATES

LUCAS INSERTOO CARRETERA 102 KM 33.2 SAN GERMAN, PR 00683

TARGET PROPERTY ADDRESS

GEOCHECK 8- PHYSICAL SETTING SOURCE ADDENDUM

AMEC Earth & Environmental Adrian Streeow 0931914 17 February 25, 2003 12:44 pm CUSTOMER: CONTACT: INQUIRY #: DATE: TARGET PROPERTY: ADDRESS: OTT/STATE/ZIP: LAT/LONG:

no coutors area were detected within this urab area.

puneup (AZ) PUI CED

CITOLINGWARM PHOW DIVE

Contour Lines

Earthquake epipenter, Pikhhier 6 or greater

PHYSICAL SETTING SOURCE MAP - 0931914.11

FC0531914 IL P306 A-4

bass eard bass Nety Graveny - cray negber zon i Abea clay gravelly - loam sandy loam loam sand sand Surficial Soil Types. sity clay clay gravelly - loam said loam loam loam sand sand

0

Based on Soil Conservation Service STATSGC data, the following additional subordinant soil types may appear within the general area of target property

Lean City Saliciay
Mannais, (more
man 35 pol
more
solor
more
solo SOILS, SAts and Clays (liquid link less than 50%). Lean Clay 08.8 xsM 08.0 xsM 08.8 mM 80.0 miM FINE-GRAINED
SOILS, Sills
and Clays
(liquid limit
ses limin 50%)
Fine-GRAINED
Fine-GRAINED
FINE-GRAINED zith day loam saucu og Sacoul V 08.8 xeM 060 xeM 06.8 min 00.0 nim зију сву јовш Permesbuity Soil Reaction Rate (in/hr) (PH) lio2 beilinU Group OTHZAA Upper гахец Soil Texture Class LOWBY Classification (Jepunog noitemothl seys I liob

> secoul 09 < Depth to Bedrock Max: seubuli (19 < Depth to Bearcax Min.

Comosion Potential - Uncoated Steel: HIGH

Hydric Status, Soil does not meet the requirements for a hydric soil

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

9418326 10.01.93 Not Reported Not Reported Max Conterminant: COLIFORM (TCR) Not Reported evel, Acute (TCR) Maximum Confaminant Lavel
Violend Oale: 10/31/36
Source ID: Not Reporter Not Report 03/31 94 5 Taken reant Level. 03/01/34 03/01/34 0419391 001 Months Nct Reported Mumber of S 0 2000000000 Maximum C 0000001280000000 Maximum Max Contemnant Level. Average functions

PWS currently has or had major vicietion(s) or enforcement: Yes

18 05 06 SAN SERM Univested Facility Laitude City Served Treatment Class 550 Sobnjatiou. Escility Longitude067 02 42 PO BOX 343 SAN SERMAN, PR 30683

System Owner/Responsible Party CARLOS APONTE Addressee / Facility

Treatment Objective: DISINFECTION, PRE Source: Surface water

ZVA GERMAN' bb 00683
BG: CWIN VT.IQ
COM BIO DIEDBAS
COM BIO DIEDBAS
EX 391 BO DIEDBAS
BG: CWIN T43
BG: CWIN T PWS lottleted Date initiated PWS Name.

EDR 10 Number ASPORIEG

Not Report

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

1C0831817 1: E936 Y-2

001 Nonths

Note: PWS System location is not always the same as w

WALL T WINE WANT PR0364043 OI JAM LOCATION 1T MORH MELL 10

FEDERAL FROS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MELL ID LOCATION PROM TP OI SAM

FEDERAL USGS WELL INFORMATION

1 000 t Slim I milliw SVV9 Je nash SEARCH DISTANCE (mices) HSABATAU

According to ASTAR E 1527.00, Section 7.2.2, "one or more additional state or local sources of anywork and according to ASTAR E 1527.00 and the configuration of the configuratio

PUBLICANT ENAIRONMENTAL RECORD SOURCES

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

1C0831814 11 Page A-8

6 A epeq 1: 410109001

Eulorcement Date:	1884-12-14	Lnl Action.	beussi OA1 be3
Violation IU:	7,580210	Enforcement IO:	6666696
Compliance Penod	16-51-5105 - 10-10-5661	Analytical Value	000000000000000000000000000000000000000
Contaminant	STW2		
Vicintion Type	Hellis of studies		
System Name	COM RIO PIEDRAS		
Foloroement Date	1994-12-14	Ent Action:	Fed FAC Issued
:Of notition/	9580510	Enforcement ID.	6666696
Compliance Period	1992 01-01-2015-12-31	Analytical Value.	000000000 0000000
Contaminant	RTW2		
Violation Type.	Faiture to Filter		
эмем мыне.	COM BIO PIEDRAS		
Enforcement Date.	1994-08-20	Enf. Action	Ped PAO Issued
:Gl nodskriV	9990510	Chinemeanoin I	9460003
Compliance Penod	1992-01 01 - 2015-12-31	Analytical Value.	000000000000000000000000000000000000000
Contaminant	SWTR		
Violation Type:	Hatting to enulse it		
System Manne	SAPRIES OFF MOD		
Eujocoswani Dale:	10-90-166L	Enf. Action:	Ped Formal WOV Issued
GI nortelory	C120824	Enforcement ID	94E0002
Compliance Period:	1992-01-01 - 2015-17-31	Analytical Value	000 00000 0000000
Contampant:	ATW2		
Violation Type.	Failure to Fifter		
System Name.	COM RIO PIEDRAS		
Enforcement Date.	₱0-90-₱ 66 1	Ent Action.	Fed Formal NOV Issued
Ci noitsloiV	2099100	Chloroement ID	94€0002
Compliance Period	1992-01-01 - 2015-12-31	Analytical Value	000000000 00000000
Incumetro.)	STW2		
SqyT noteloiv	Failure to Futher		
этей тыгуг	COM, RIO PIEDRAS		
Enforcement Date:	1993-15-30	Ent Acton:	beues! VOV lermo? be?
Ol notationV	CO46546	Ol Inemediated 10	94E0001
Compliance Period	1992-01-01-2015-12-31	Analyheal Value	99600900.0000000
Contament	RTW2		
System Mame.	COM 310 PIEDRAS Failure to Filthy		
		South a	
Enforcement Date.	5000-04-15 0049242	Enforcement 10	State Public Northissued
Compliance Perod: Violation IO.	5000-05-01 - 5000-05-58	Sulsk isotylenA	000000000.0000000
Contaminant Period	COLIFORM (TCR)	o dest in alfalend	000000000000000000000000000000000000000
Aloladon Type:	Max Contaminant Level, Acute (TCR)		
System Name:	COM, RIO PIEDRAS		
Enlorcement Date	\$1/Z1:1661	Ent. Action.	Fed FAO Issued
Violation (D:	0046545	Chloreement ID	666686
Compliance Pened.	1992-01-01 - 2015-12-31	Analytical Value.	000(000000,00000000
วุบยนเมยนาว	HIMS	101110-10140-04	000000000000000000000000000000000000000
Violation Lype	Fallure to Faller		
System Name	COM RIO PIEDRAS		
Enforcement Date.	2000-02-03	Eul Action	State Volation/Remander Volice
Ol nonsionV	20000203	Enforcement ID	094/000
Compliance Penod	2000-03 01 - 2000-03:31	Analytica Value	000000000000000000000000000000000000000
Contaminant,	2000 03 01 2000 03 31		000000000000000000000000000000000000000
Violation Type	Montoring, Rousta-Repeat (SWTR Ln.	Con	
System Name.	COM. RIO PIEDRAS		

ENFORCEMENT INFORMATION:

CEOCHECK® - **SHARICAL SETTING SOURCE MAP FINDINGS**

etal Inemedioin:	1939-15-01		Enl. Action.	State Violation/Re	e: naM tebnimi
Ot modeloin	0042222		Otherrs: while	1708400	
hurse sansigmo.	1.6661 - 10.01-6661	151	Sulta ValvienA	0000000 00000000	000
Instrimetro	SWIR				
led4; tropelor	Monitoring, Routine	Repeat (S'W FR-Until	0		
smeN metay	COM RIO PIEDRAS				
TAMROHI TURBARDE	:NO				
THISC SSENETEWA TON	Not Reported				
cuteminant	сольоди (тся				
Joisticn Type.	Max Contaminant		(Mr		
yusikais Method	behoden tow				
yusikala Hesulf.	Not Reported	Maximum Cont	10A87 JUBUIUS	Not Reported	
ventred Samples	behogen low	Med to redman		иог керсива	
to beginning Date:	P6/L0/PG	Vio end Date:	26/02/20	bone a o V	001 Months
:Ot no teloit	9420374	Source ID	Not Reported	PWS Phone.	Not Reported
No. Awareness Date	Not Reported				
:jueulusut:	Lucadity				
Violation Type:	Max Contaminant	абазалы налат			
Juaiysis Method	Nephelometric				
fluseR sizylen	000000100000000000000000000000000000000	Maximum con	HURLINGUE L'EVET	000020000000	000
seidured bamber mun	Not Heported	mas to redmun		Not Reported	
in beginning Date.	05/07194	Vio and Date	26/15/90	Done's o'V	001 Months
		Scurce ID.	Not Reported	PWS Phone	Not Reported
Of norteloit	9420316	Oleaning	behoose a told	00040 21410	beneard told
eteC azenerswA of	behodeR loM				
thenimetro	COLIFORM (TCR				
Joseph Type.	Montoring, Routin	(SDT, roleMie			
:pouteW sisylent	Not Reported				
Analysis Result:	Not Reported	Maximum Cont		No: Reported	
vem required Samples.	behooeR toM	MeS to redmuM	cese Taken:	Мо! Яврсиед	
ered building of	P6/10/90	Vio end Cate	76/00/90	Vio. Period:	enthoM f00
Ol noutsloit	919CZ#6	Source ID.	Not Reported	enord SW9	релодеЯ 10М
No. Awareness Date:	behoden low				
cutsumpaut.	сопнови (тсв				
Violation Lype	молютия, Колы	(HCT) totally a			
yusiksis Method	раподан юм				
yualysis Result:	Not Reported	Maximum Cont	leved Insnims	Not Reported	
Your required Samples	behodeH loN	Mumber of Som	pies Taken.	Not Reported	
His beginning Date.	P6/1/0/90	Alo sug Cale.	P6/12/00	Doney o V	SUJUDIN LOO
:Ol notation	9420677	G: eoruos	Not Reported	PWS Phone	Not Reported
eleU asenerawA olv	Not Reported				
Contaminant:	Not Reported				
Violation Type:	прод Виновиом	SHEED (SMIK-	(MUC)		
naiysis Metrod.	DehodeH lov				
Analysis Result:	Not Reported	Maximum Cont	SURPRISE LEVEL	Not Reported	
and sednited Samples.		Mumber of Sam		000	
Vio. beginning Date.	₽6/L0/90	Vio end Date:	t:61090	Vio Period:	001 Months
.Oi notaloiv	8421143	Scurce ID.	Not Reported	PWS Phone	Not Reported
Vio. Awareness Date:	Not Reported				
Contaminant:	COLIFORM (TCR				
Noisten Type:	POTY MGOSI 102		(1)		
Prosiyes Method:	Not Reported	TOTI ATION IONG	"		
		LIOO LIBURATION	MACT MIDITION	Not Reported	
gusiàzia geanic	betrodeR toN	Maximum Cort			
Arm required Samples.	11/11/93 Not Reported	Vio and Cate:		Vio Penod*	shinoM 100
			£6/0£/11		
Violation ID. Vio beginning Date:	9419238	Scurce ID	Not Reported	PWS Phone	DehodeM JoN

GEOCHECK & DHYSICAL SETTING SOURCE MAP FINDINGS

alorcement Date.	1994-12-14	notoA In3	beuest DA1 be1
(Iciation iD:	89/1910	Untorcement ID	6666686
Compliance Period.	1992-01-01 - 2015-12-31	Analytical Value	000000000000000000000000000000000000000
Coltibution	HTWS		
Any T nodeloiv	Failure to Filler		
System Name.	COM. RIO PIEDRAS		
ets.O tnemeoxoln?	1994-12-14	Fol Action	Ped FAC Issued
Ol noteloiv	2521510	Ot Insmeoreln3	6666686
Compliance Period	1992-01-01 - 2015-12-31	Analyrical Value	00000 1000 0900300
Contaminant	SWIR		
.eqyT nodeloiv	Failure to Fitter		
emel metay?	COM, RIO PIEDRAS		
oteO tnameoroin3	1994-09-20	notice tri3	beutzi OA9 be9
Ol notalniv	9971210	(Il tre-menotri?	04F0003
Compliance Penod.	1992-01-01 - 2015-12-31	Analysca: Value	000000000 0000000
Contaminant:	ATW2		
.eqcT nobelon	Fawlure to Filter		
System Name.	COM, RIG PIEDRAS		
Enforcement Date	#0-50-#66L	Enf. Action:	Ped Formal VOV Issued
.Gl noteloiv	9921910	Chloroemeanoin.	94E000Z
Compliance Period	1992-01-01 - 2015-12-31	Analytical Value	000000000000000000000000000000000000000
Contenunant	ATWS		
Aloyagou I Abe.	Failure to Fitter		
System Memes	COM. RIO PIEDRAS		
Finlorcement Date	2001-02-13	Enf. Action;	State Violation/Raminder Notice
UI NOREKNIV	8980510	Enforcement ID:	P/E1900
Compliance Period.	2000-12-01 - 2000-12-31	Analytical Value	00000 2000 0000000
Intermetrical	COLIFORM (TCR)		
Ajojapou j. Xbe	Monitoring, Routine Major (TCR)		
System Name,	COM RIO PIEDRAS		
Fujocosment Date	21-21-0002	Eut veneu:	State Victation/Reminder Notice
Violation ID:	REBUSIO	Citinementonina	0/61300
Compliance Period	2000-10-01 - 2000-10-31	Analylical Value	0000000000 0000000
Contaminant	COLIFORM (TCR)		
Violation Type	Monitoring, Routine Major (TCR)		
System Name	COM. RIO PIEDRAS		
Enforcement Dale	5091-01-11	Fol Action	State Public North Issued
Viceator ID:	0120828	Enlorcement IO.	2/61500
Compliance Period.	S000-11-01 - S000-17-20	Analytical Value	000000000000000000000000000000000000000
Contaminant	COLIFORM (TCR)		
Violeton 1 ype.	Max Contaminant Level Monthly (To		
System Name	COM BIO PIEDRAS		
Eulorcement Date	2001-01-11	Ent Action:	State Viciation/Remander Notice
Violation ID	8580510	Enforcement ID	1/21500
Compliance Period	2000-11-01 2000-11-30	Analytical Value	000000000000000000000000000000000000000
Containinant	STW2	- 11-71 11-12-11-11	000000000000000000000000000000000000000
Violation Type	Monitoring, Routine/Repeat (SWTR-	C	
System Name	COM, RIO PIEDRAS		
Еијоковшент (1916.	21.21.0005	Ent Action	State Violation/Reminder Notice
Violation 19	0120828	Enforcement ID	0.0051370
Compliance Period	2000-10-01 - 2000-10-31	Analytical Value	000003000 0000300
Contenunant	ATWS		23223000 0000000
Violation Type:	Montoding, Routne/Repear (S/VTR-	ti	

ENFORCEMENT INFORMATION:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

nforcement Date	5030-03-13	Linf Action	State Victeton-Reminder Youne
Olation IU	C016545	Enforcement ID.	6907 1009
bone9 sometimo	3000-04-01 - \$000-04-31	Analysical Value	00000000 0000000
HIPLIANSPIR	AIWS		
AnyT nothston	ATW2) lesqe-Alenthoff , genotinoM		
yatem Name,	COM, RIO PIEDRAS		
nick cement Date.	50-50-0003	nation last	State Vichanni Reminder Statre
Gi nodeloi	tvS9t03	Cinforcement 1D	0904100
pouse Senod.	2000-03-01 - 2000 03-31	SUISY ISOUNIEUA	00000000 0000000
inenimelno.	COLIFORM (TCR)		
eq (T modelor	Monitoring, Routine Major (TCR)		
ameM meley	COM RIO PIEDRAS		
oteconent Date	5020 05-13	Enf Action	State Vicketon/Reminder Motica
Of nortaloi	0016543	. Of International	6902100
boine Period	2000-01-01 - 2000-01-31	Analytical Value	000000000 0000000
រូបថបយេខ្មាល	(FOT) MROHLOD		
jolstion Type:	Monitoring Routine Major (FGR)		
.emsN metsy	COM RIO PIEDRAS		
etad tnemeotoin.	5090-05-05	Eut Acuca:	State Violation/Reminder Notice
Gl noiteloi	0099900	Enforcement ID.	5046073
txxia99 soneligmo.	16-61-6661 - 10-61-6661	ALIEV IENINARIA	000000000000000000000000000000000000000
Then must not	COLIFORM (TCR)		
adí i notetor	Montoning, Routine Minor (TGR)		
ystem Vame"	COW, RIO PIEDRAS		
SIEQ memeoroin	1884-1514	Ent Action	Fed FAC Issued
.Ol notetor	0995100	Enforcement ID:	6606586
compliance Period.	1992-01-01 - 2015-12-31	SulcV lestylenA	000000000 0000000
insometno	SWTR		
eqy1 notaloi	Setting to enulies		
ystem Name:	COM, RIO PIEDRAS		
.steC Insmecroin.	5000-05-05	Enf Action	State Victations Reminder Notice
Ol nodelor	6999\$00	Enforcement ID:	£109+0C
bona9 sonelionio	16-21-6661 - 10-21-6661	euleV leodylenA	000000000000000000000000000000000000000
Insumelno	RTWS		
fickling Type	Monitoring Rounne-Repeal (SWT)	(sigue)	
узает Мате	COM, RIO PIEDRAS		
ele(i Insmenolo)	2010-0005	CottoA Ind	State Violation/Remember Notice
Ol noitalor	8999900	Enforcement ID:	0049015
borns/9 sunsiligmo?	06-11-6661 - 10-11-6661	Analytica Value	0000000 0000000
foortimetrio	COLIFORM (TCR)		
eqų T noitistori	Monitoring, Routine fullnor (1-3R)		
emein meley	COM RIO PIEDRAS		
nforcement Date.	20-00-00-0	Ent Action.	State Victation/Reminder Notice
:Ot nodelon	Z999\$00	Ol In memorin	0046072
bornof someligmed	05-11-6601 - 10-11-6601	Anatyteal Value	0000000 0000000
Insometrio.	ATWZ		
inden Type:	COM, RIO PIEDRAS Monitoring, Routine/Repeat (SWT)	(IISU()	
:ateQ tnemacroin;	70-S1-666F	nodok Inā	State Vicialion/Reminuer Yolice
'G) notietoi/	0012229	Enforcement 10	1209600
bone? Perod	16.01-999-10-01-9991	Analytica Value	000600000 0000000
วุบยบเมหานาว	COLIFORM (TER)		
indiation Type:	Monitoring, Routine Minor (TCR)		
:awen watsh	COM RIO PIEDRAS		

ENFORCEMENT INFORMATION:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

TC0931914.11 Page A-12

State Victation/Renunder Notice	notbA ln3		5005-08-10	Enforcement Date:
0561060	Ul Insmembroth:		1988970	O) nodelory
0	Analytical Value		2002-07-01 2002 07-31	Compliance Period:
			COLIFORM (TCR)	Confamiliant
			Montoring, Routine Major (TCR)	violetion Type:
			COM. NIO PIEDRAS	System Name:
Fed FAC Issued	notoA In3		1994-12-14	Enforcement Date.
6666686	Chlorcement ID		0528841	Violation ID:
0	Analytical Value		1892-01-01 2015-12-31	Combrance Period:
			STWS	Contaminant
			Failure to Filler	Violation Type
			COM NO PIEDRAS	System Name
Fed FAC Issued	Ent. Acton.		5001-08-51	Enforcement Date
02F0001	(Il toemecsolo?		0528841	Violation ID:
0	Analytical Value		2002-09-01 - 2002-09-30	Compliance Period
			SIMS	Contaminant
		OBS	Monitoring, Routine/Repeat (STV-C)	Aiolation Type:
			COM RIO PIEDRAS	System Name,
State Violation/Reminder Motice	Ent Action:		2002-11-06	Enlorcement Date:
0261062	Oi Inemeoroka 3		0598841	OI nodeloiV
0	Analytical Value		2002-09-01 - 2002-09-30	Compliance Period:
			SIMS	Conteminant:
		(կել	Monitoring, Routna/Repeal (SWTR-U	лювиои туре"
			COM RIO PIEDRAS	System Name:
State Victason/Reminder Notice	Ent Action:		2002-10-10	Enforcement Date
0561061	Enforcement ID:		0528841	Violation ID:
0	Analytical Value		2002-08-01 = 2002-08-31	Compliance Period
			SWTR	Contaminant:
		(Byt	Monitoring, Routne/Rapeat (SWTR U.	Violation Type:
			COM RIG PIEDRAS	System Name;
State Violation/Reminder Notice	Ent Action.		2002-09-10	Enforcement Date:
0561060	Ol tnemeonolisa		0528841	:Ol notationV
0	Analytical Value		2002-01-01 - 2002-01-31	Compliance Period:
			ATWS	Contaminant
		(IR)c	Monitoring, Routine/Repeal (SWTR U	Violation Type:
			COM: BIO PIEDRAS	System Name.
Fed FAC Issued	nonsk Ind		2001-09-27	Enforcement Date:
05E0001	Enforcement ID.		0599900	:Ot notation ID:
9	Analytical Value		2002-08-01 - 2002-08-31	Compliance Period:
			ATW2	Contaminant
		(Hillin	Monitoring, Routine/Repeal (SWTR U	Violation Type:
			COM, RIO PIEDRAS	System Name:
Fed FAC Issued	Ent Action:		5001-09-27	Enforcement Date:
05E0001	Gi Inemeanoin3		0258839	Vicigiton ID:
C	aute/ isotylenA		2002-07-04 - 2002-07-31	Compliance Poned:
			arws.	Contaminant
		(I)gu	Monitoring, Routine/Repeat (SWTR-U	System Name: Violation Type:
94E0003 Feu PAU lssued	Enforcement ID. Fnf Action		1869 1661 DZ 160 1661	Enforcement Date:
0	Analyscal Value		1892-01-01-2015-12-31	Compliance Period:
	lett teamile at		1805-101-1016-15-31	Contaminant
			Fallut of enumeri	Alogajiou Abe:
			COW: BIO PIEDRAS	System Name
			3.3036 08 1103	ameld mutan?

ENFORCEMENT INFORMATION:

GEOCHECK 9- PHYSICAL SETTING SOURCE MAP FINDINGS

Analysical Value 2 Entocement ID. 94E6003 Ent Action Fed PAO Issued COM. RIO PIEDRAS SWIRS IO FIRM SWIRS 1992-01-01 - 2015-12-31 1994-09-20 COM RIO PIEDRAS Falure to Files SWTR 1992-01-01-2015-12-31 0258778 1994-05-04 System Name Violation Type Continument Compliance Penod Violation ID: Sinforcement Date: COM RIO PIEDRAS Failure to Fillow SWTR 1932-01-01 - 2016-12-31 05/58/TT 1993-12-30 CCM RIO PIEDRAS System Name. Violation Type: Containmant Compliance Period Violation ID: Enforcement Date. Enforcement Date. System Name 6 Jakyka A Value 6 Gi keamanohn 6 Jakest VCV lenno3 he3 7 April Anthropia 8 April An COAL RIO PIEDRAS C161760 C00160RM (TCR) Monitoring, Goutine Major (TCR) Monitoring, Goutine Major (TCR) Enjoycement Date Avoiation ID. Containing Reloct Type: Containing Period Avoiation ID. Zeyleming IASe. Zeylem Jake.

COW BIO DIEDBYS

CON BIO DIEDBYS Analysical Value 2000000 00000000 00162772 Est Action 20152272 Est Action 2015272 Est Act
 Eur Posice
 2.8te Victation/Reminder Molice

 Eurocoment ID
 0000000 000000000

 Eurocoment ID
 0000000000

System Name Compilan Type Compilan Type Compilance Period Microment Date Analysical Value 5149 Virtainin/Reminder Motine 5140 Action 5140 Virtainin/Reminder Motine 5140 Virtainin/Reminder Virtainin/Reminder

2001-03-01 - 2001-03-31 0151760 001-05-14 COM RIO PIEDRAS Monitoring, Routine-Repeal (SWTR-Unally SWTR

| Selection | State Victabor/Reminder (Volume | Volume | COMI. RIO PIED.RAS

S001-02-10 - 2001-02-28

S001-02-10 - 2001-02-28

COMI. RIO PIED.RAS

COMI. RIO PIED.RAS

COMI. RIO PIED.RAS

COMI. RIO PIED.RAS

State Victation/Reminder Molice

COMI, INO PIEDRAS

Workschell, Rouenas apeai (S. V.1.R-Linilli)

SWIR

VOI 1-01 - 2001-01-31 En

Robistor En

2001-102 En

An Strong En

An St

System Vame Violation Type Contemnent. Compliance Period Violation ID Enforcement Date

GEOCHECK & PHYSICAL SETTING SOURCE MAP FINDINGS

— 2 на 2009 (D): - 10 на 2009 (D): - 2 на 20
Timpoly
war commenced the control of the con
Section COM MICROSH Companies Com
Eq. (1975) Eq. (1975) Eq. (1976) Eq.
Part
Appears placed or 194-01-11-139-01-139 Appears placed or 194-01-11-139-01-139-
Introde Continue Coll (FICH) Coll (F
Mar. Continue Mar. Continu
Manuful CON MIO Delic DRA
189-02-05 Europeansent 189-02-05 Europea
Bell Comment
1997 101 - 138-101 - 138-101 1
Import Approximation Coll (Colyn (LCs)) Colon (LCs) Colon (LCs
MRX CONSUMBANT (lock / Arkadek MRX CONSUMBANT (lock / Arkadek 1997-02 MRX CONSUMBANT (lock / Arkadek 1997-02 MRX CONSUMBANT (lock / Arkadek MRX CONSUMBANT (l
But Agains COM VIO NEGASY2 Engineering 1997-92
1894-05-97 189
2000 2017-2019
294-01 or 1 :898-01-23 VUP9hUCH AND 20000001 S 294-01 or 1 :898-01-23 VUP9hUCH AND 20000001 S 294-01 or 1 :898-01-23 VUP9hUCH AND 2001-00-2 VUP9hUCH AND 2001-00-
Imadiv
MRC COMPRESSION MRC COMPRE
юм лячия COW KIO ЫED84P2 Eqi yediled Eed LYO Iseneq дорин (C. 2588H1 Eqi yediled Eqi yediled дорин (C. 2003-04) Yunayida (C. 2000.1 COII (COPM (LCS)
Second S
арон (D. (258641 — Еифскакшэн) 0.550001 серено 2005-400-1-5005-08-20 Учина 0. СПЕОВИ (ССЯ)
illemnant COLIFORM (TCR) Analytical Value 0 Analytical Value 0
Isaminant COLIFORM (TCR)
apou ; bbe. yourcuid' yongue yalor (LCB)
tem Name COM, RIO PLEDRAS
programent Date 2002-11-06 Enf. Action. State Violation/Reminder Notice
slon iD: 0258841 Enforcement ID: 0251062
npliance Period: 2002-09-01 - 2002-09-30 Analysical Varue 0
IBMINSM. COLIFORM (TCR)
(ROT) Topis Annual generalization eqy? realization
tem Name COM. RIO PIEDRAS
Oronment Dale 2001-09-27 Ent. Action Fed Fad Page
epou ID 0529841 Eulorcomont ID. 05E0001
rphance Period 2002-09 01 2002-09-31 Analytical value 0
REMINISHE COFFEORM (LCS)
japou I Nbe: Wouldouwd, Routine Major (TCR)
VERTINE COM, RIO PIEDRAS
orcement Date: \$2002-10-10 Enf. Action: State Violation-Reminder Notice
19015C (1) 0758641 Classification 0.000 (1) 0.000 (1)
2022-08-01 2002-08-01 - 2003-08-01 2003-08-01 2003-09-00 0
Nammani COLIFORM (TCR)
lation Type: Monitoring, Routine Major (TOR)
Hem Name COM RIO PIEDRAS
oxosment Date 2001-09-27 End. Action Fed FAC Issued
10003C 01/nemecroln3 148620 01 noisi
0 SuleV le30kHsnA 11-7002-07-07-07-07-07-07-07-07-07-07-07-07-07-
nemment COLIFORM (TCS)
(ACT) royal grulluoth, grirkthrow sky I notisi
Hem Name: COM, RIO PIEDRAS

ЕИГОВСЕМЕЙТ ІЙГОВМАТІСИ:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

E1-A 6ged if £16189001

Enforcement Date.	to-\$0-1661	MOIDA In3	traussi VCV termo1 59-1
OI notation?	0X2883.v	Ul Inemediological	84F0905
Compliance Period.	1992-01-01 - 2015-12-31	Analylical Value	G
Confaminant	FINS		
eqyT notisloiV	Failure to Fitter		
System Name.	COM, RIO PIEDRAS		
ele() Insmervoin-	06-51-6991	Rot Action	Fed Formal VOV tesured
Gi notision/	5256836	Oi tremenoto3	10003140
Compliance Period	1992-01-01 ZO15 12-31	Analyteal Value	G
Toentmetho	ATWZ		
smeN metay?. sqq1 notteloiV	COM RIO PIEDRAS Failura to Filler		
Enforcement Date	2001-08-51	noite Action	beusst OAR teah
Ol noriginity	05/28379 5035-06-01 - 2005-06-30	Analybeal Value. Citiesement ID:	02E0001
Contaminant Compliance Period	COLIFORM (TOR)	errieV is advisor &	C
Violation 1ype.	Max Contaminant Level, Monthly (TCR)		
System Name:	COM RIO PIEDRAS		
Enforcement Date.	5003-08-08	Ent Action:	Stare Public Notifits year
Ol nottslotV	6778220	Gi Inameorolii3	9260253
Compliance Period:	2002-06-01 - 2002-06-30	Analyscal Walne	C
Contaminant.	COLIFORM (TCR)		
Ady1 notationV	Max Contaminant Level, Monthly (TCR)		
System Name	COM BIG PIEDRAS		
Enforcement Date	2031-09-27	Ent. Action.	Deutst UA3 ba3
Gl noissiorV	6TT820	Ci insmessiona	05E0001
Corripliance Period	2002-05-01 2002-05-31	Analytical Value	0
Contaminant	COLIFORM (TCR)		
System Vame Violation Type	COM RIO PIEDRAS Max Confeminant Lavet Acute (TCR)		
-			
Enforcement Date	2002-07-40	Enf. Action:	State Public Norif Issued
Of nodeloiV	67,189779	Enforcement iD	0560252
Compliance Period	2002 05-01 - 2002-05-31	sulst leadylenA	C
Violation : ype Contaminant	Max Conteminant Level: Acide (TCR) COLIFORM (TCR)		
anski material	COM 1310 PIEDRAS		
emeld metar?			
eled tnememoin?	7031-09-27	noitaA la∃	benest 043 peg
.Ol noteloiV	C258779	Gi Inorropioln3	QSE0001
Compliance Penod	2002 - 04-01 - 2002-04-30	Analytical Value	¢
Contaminant	COLFORM (TCR)		
Violation Type.	Max Contammani Level, Acute (TCR)		
System Name	COM BIO PIEDRAS		
Enforcement Date	5005-00:43	fint. Action	State Public Note Issued
Gl nodeloiv	62/8520	Chlorcement ID	D260251
Compliance Pened	2002-04-01 - 2002-04-30	Analylical Value	0
Contaminant	COLIFORM (TCR)		
Ajojapou j. Abe. Rhajeju yaswe:	COM RIO PIEDRAS Max Contaminant I evel, Acute (TCR)		
		10000	
Entoneoment Date	1994-12-14	Enf. Action	Fed FAC issued
Violation ID:	6778279	Enforcement ID:	6666386
Compliance Period:	1992-01-01 - 2015-12 31	Analyical Value	0
Violation Type: Containmant.	Failure to Filter SWTR		
System Name:	COM RIO PIEDRAS		
Sustant Manage	SACORIG OIG MOD		

ЕИРОВСЕМЕЙТ ІЙГОВМАТІОЙ:

GEOCHECK №- PHYSICAL SETTING SOURCE MAP FINDINGS

81-A 6ge9 11 pre18600T

Continuence December Continuence December Dec	nickcement Date:	1894-08-75	Ent Acton:	State Violation/Remander Notice
Voldenon M. Schopharen Mark (TCR), Avenage (SVTS-Mark (TCR), Schopharen Mark (TCR), Schopha	(It notation)	9981796	Ui Juemeoroin3	9451029
Continuous Con			Analytical Vature	00 00000000
Continuent				
1941 1.1 1.1 1.2 1.1 1.2				
Configuration Configuratio	System Name:	COM RIO PIEDRAS		
1944-0.1.13 1944-0.1.13	eteC tnemecroto	1834 15 14	Ent Action:	
Voldenon Miles (1971) Service Many (1973) Service Many (1974) Serv	.G! noneloly	9951396	Ot toe meaning	
Confidence Page Conf	Compliance Period"	16:70-9661 - 10:70-9661	Analytical Value	000000000
Voldenon III. Scholensmann Date (2014) 1994 (25.71 19	:Insnimetno			
1994-12-14 Enthromment E	edy1 noteloiv	Montomy, Routine/Rapeat (SW1R-Un	GI	
Configuration Configuratio	skalem Name.	COM NO PIEDRAS		
194 049-01 198-09-20 Punkhors Name Pun	Enforcement Date	1994-12-14	Enf Action.	beussi OAR beR
Workloom Discovered Construction of Accordance of Condition Mary (10-8) (19-9)	C) I UKNIBION	9451331	Citinemiscrotofia3	6666686
Modelson Type: Modelson	Comptance Period	1884 08-01 : 184-08:30	Analytical Value	96 10900000
Workland	วนยนะเมยูนดา	Turbidity		
Confidence Con	Arotagou i Abet	Max Contaminant Level, Average		
Continuous Con				
Configuration Configuratio	Enforcement Uate.	1884 10:26	Enf. Action	State Victation/Reminder Notice
Confidence Con		9451331	Chloroen ent ID	8451057
Continuous Con		06.60-4661 - 10-60-4661	Analytical Value	98 100000000
Continuent				
Conditional Cond	Violation Type:	Max Contaminant Level, Average		
Confidence Con	System Name:	COM, RIO PIEDRAS		
Conference (2004) Conference (2	Enforcement Date:	1994-12-14	Enf. Acton:	bauest OAR beR
Volation Mr. Confidence May (103) Volation Mr. Confidence Mr. Con		8454330	Enforcement ID.	6666696
Voldelon	Compliance Period.	16-80-4661 - 10-80-4661	Analytical Value	00 000000000
Confidence Con	Insumsino.)	COLIFORM (TCR)		
Workland N. Workland News (FCT) Workla	Violation Type:	Max Conteminant Level, Acute (TCR)		
Continuous Con	System Name:	COM. RIO PIEDRAS		
Configuration (2 Configuration) Continuous (2 Configuration) Configuration (3 Configuration) Con	Enlorcement Date:	51-60-9661	notice. In3	State Public Notif Issued
CONFIDENCE	.Ol notision V	3451330	Chlorcement (D	5451053
100,000,000 100,000,000	Compliance Period.	1994-08-01 - 1994-08-31	Analytical Value	00 00000000
(2017) Maily American Place (1921) Maily Learly Learly Condition May (2017) Maily Learly Condition May (2017) Maily Learly Condition May (2017) Maily Cally Condition May (2017) Maily Cally C	Contamenant.			
Confidence Con	Violation Type:	Max Contaminant Level Acute (TCR)		
Woldshorp Wordshorp Word	System Name.	COM. RIO PIEDRAS		
1999 1999	Eujarcement Oate.	19-51-4661	nouse lon	Fed FAC Issued
(18CT) Nation for other order of the control propose of the contro	Ci nodelory	8421143	Enforcement ID:	6606396
Workboom Sprink Americang, Submishered, Sub	Compliance Period.	08:90-+661 - 10:90-+661	Anie V recitylish A alue	0000000000
Woldshort New York PERDAS COM RIOD PREDAS Find shows the August 1/21 (2007) Find show	Contemmant:			
Wolskinow Proceedings	Violabori Type:	Monitoring Routine/Repeat (SYNR-Un	(us	
Voldation Pin Voldation Pin (PCT) Name 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000 000000000 000000000 000000000 00000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 00000000 0000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 000000000 0000000000 000000000 000000000 000000000 000000000 000000000 000000000 0000000000 00000000 00000000 00000000 00000000 000000000 00000000 00000000 000000000 00000000000 00000000000 000000000 00000	System Name:	COM RIO PREDRAS		
Continuence 19,000 (2014-044) (1.05) (2014-044) (1.05) (2014-044)	Enlorcement Date:	1994-09-20	noroA Jn3	boussi OA9 ben
Violation 76 Per Avoidance Process (1973) Avoidance Process (1974) Avoi	Violation ID.	8421143	Enforcement ID	9400003E
Violation Types Amonitoring, Boundary State (ECR); August (ECR); August (ECR) Amonitoring (ECR) <td>сомьжение Ройов.</td> <td>06:90-9661 - 10-90-9661</td> <td>Analytical Value</td> <td>00.00000300</td>	сомьжение Ройов.	06:90-9661 - 10-90-9661	Analytical Value	00.00000300
Volation Prime CON RIO SEEDAYS Environment Prime 500,000 SEEDAYS Conformance Prime 500,000 SEEDAYS	Contamonant,	ATW2		
Problemont COLLE OMR (T.CR); Configuration Date 1994-02-114 Enlocement Date 600000000.00 Enforcement Date 994-02-14 Enlocement Date 699-17-14 Enforcement Date 994-02-14 Enlocement Date 699-17-14	Violation Type	Monitoring, Routine/Repeat (SWTR-Un	(4)	
Condense Review Account George Mark (1.28) Condense Review Account George Mark (1.28) COTIF GWR (1.28) COTIF GWR (1.28)	emely maisy?	COM RIO PIEDRAS		
Crubpaces Ferior: 1894-05-01 - 1894 05-21 yushkiesi Valne 60000000 00 ocupament COTIDE W COTINE OCUPACE VALUE (CS)	Enforcement Date:	1994-12-14	notto A. In B	beussi OAR beR
Conference Court Office (108)	Violation ID	2450677		
Violation ype Montoring, Rousne Major (TCR) Contaminant: COLIFORM (TCR)	Compliance Period:	18:50 #661 - 10:50 #661	Analytical Value	06'00900000
		COLIFORM (TOR)		
System Name: COM: BIO StEDBAS	Violation ype	Monttoring, Routine Major (TCR)		
	WHITEN HAMSAC	COM. RIO PIEDRAS		

ENFORCEMENT INFORMATION:

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Analyticas Value 20000002 01 Enforcement in 9400002E Enforcement in Page 20000002 01 End formal VOV lasued COM, RIO PIEDRAS Max Contaminant Level, Avera Turicus 94,03/5 1994-05-04 Enjacement Date Another Lyber Combigues Bened Another Lyber COM, RIO PIEORAS Max Continental Level, Monthry (TCR) COLIFORM (TCR) 9420374 1994-12-13 1994-12-14 PIO SECONDA Enforcement Date System Ayer Contemport: Compleance Penod System Date COMI, RIO PIEDRAS COLIFORM (T.C.R.) 1994-06-21 1994-04-01 1994-04-01 1994-04-01 1994-06-20 COLIFORM (T.C.R.) System Name: Contemnent, Compliance Penod Violation ID: Violation ID: Analysical Value 00000000 00 Ent Action. State Public North Issued 94 157 17 COM RIO PIEDRAS COLIFICRA (TCR) 1994 44-01 - 1904-04-20 9420374 1994-09-20 System Name Violation Type: Complians: Period: Violation ID Enforcement Date: Eul Action: Fed PAO Issued Analysis Value: 00000000 00 COW IND DIEURAN 1994-05-04 1984-05-1 - 1994-04-30 GOTROWN LOSE CON IND DIEDRAS COM IND DIEDRAS Analysical Value 200000000 6 Enforcement ID 9400002E Ent Action Fed Formal NOV Issued 82 00000000 eula Vilicali 8886938 (Il nescendi Fed FAS Las Inciden. Enlorcement Date: Violation I yre: Viola 1994-03-01 - 1994-03-31 9419391 1994-12-14 COM RIO PIEDRAS Max Contaminant: evel Average Turbidity COM RIO DIEDRAS COM RIO DIEDRAS COM BIO DIEDRAS COM DIEDRAS System Name Violation Type. Containment. Compliance Period Violation ID. Enforcement Date: System Name. 82 00000000 Saline Park Value 20000000 Saline Salin COM RIO PREDAKS Max Contaminant Lewel, Average 1994-09-20 1994-09-20 System Vame: Violation Type Covilaminant: Violation ID Vi COM RIO PIEDRAS hist Contaminant Level Average Turboity 1994-03-01 - 1994-03-01 1994-03-System Name. Compleance Period Violation 10; Enforcement Date. Enforcement Date. Enforcement ID 9400002E Pulorcement ID 9400002E 90000000 28

NEORGEMENT INFORMATION:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Date	1994-12-14	Cut Acton:	Fed FAC Issued
Gi notetory	1800796	Ultransoroing	6666686
Compliance Penod:	1994-12-01 - 1994-12-31	Analytical Value	00.00000000
Coxtlananani.	COLIFORM (TOR)		
My Type	Monitoring, Routine Major (TCR)		
эхэрэш увше.	COM RIO PIEDRAS		
Foliocoment Date	90-20-9661	Ent Action:	solinit tehnimeRinoitakiiv etst8
Ol notaloiV	19053081	Conforcement ID	9522423
Compliance Period:	1994-12-01 - 1994-12-31	Analytical Value	000000000
Contaminant	COLIFORM (TCR)		
Violatium Type	Moratoning, Routine Major (TCR)		
System Name:	COM, RIO PIEDRAS		
Sed friememonotrial	1994 12:14	Enf. Action.	beussi OAR beit
(II notelorV	¥166696	Ol tnementoln3	6666686
Compliance Period:	1994-11-01-1398-11-30	Ansalytical Value	00 000000000
Contaminant	COLH ORM (TCR)		
Asciation Type:	Monitoring, Routine Major (TCR)		
System Mame.	COM RIO PIEDRAS		
Enforcement Date:	01-10-5661	Ent Action:	State Victation/Reminder Molice
.Gl nolisiolV	\$16ZZ96	Enforcement ID	9522296
Compliance Period:	06-11-5661 - 10-11-5661	AMAINING VAILE	00 00090000
Contaminant	COLIFORM (TCR)		
Violation Type.	Monitoring, Routne Major (TCR)		
System Name:	COM. RIO PIED 2A.5		
Enforcement Date	1884-15-14	Enf. Action:	Deussi OA3 be3
:Oi notialorV	9622750	Chinemeanoin3	6666586
Compliance Penol	1994-10-01 - 1994-10-31	Analytical Value	00000005 10
Conlaminant	Turbidity		
Violation Type	Max Contaminant Level, Average		
System Name;	COM, RIO PIEDRAS		
Enforcement Date:	1994 12-05	nobbA In3	State Victation/Reminder Notice
Violation ID:	9522750	Enforcement ID.	3852092
Compliance Period:	15-01-4661 - 10-01-4661	Analytical Value	90000002 10
Conteminant	Turtxcity		
Violation Type:	Max Contaminant, evel. Average		
System Name,	COM BIO PIEDRAS		
Enlocosment ()949.	1884-12-14	Ent Action.	Fed FAC leased
Gi notisioi V	9421867	Gitro nasiotad	6666686
Compliance Period.	00 60-1661 10-60-1661	Analytical Value	00.00000000
Contaminant	COLIFORM (TCR)		
Violation Type:	Montonng, Routine Major (TCR)		
System Name.	COM. RIO PIEDRAS		
Enforcement Date	1994-16-26	Enf. Action:	State Vicisbon/Reminder Nobes
Victation ID:	781546	Gniorcement ID:	7421057
Compliance Portod	06-60-4661 - 10-60-4661	Analytical Value	00.00000000
Containanant	COLIFORM (TCR)		
Violation Type.	Monitoring, Routine Major (TCR)		
System Name:	COM RIO PIEDRAS		
Enforcement Date	t1.51-1661	Enf Action.	Fed FAC Issued
Gi noteloiV	998:286	Ol Inemedioln3	6666586
Compliance Period.	1994-07-01 - 1994-07-31	Analytical Value	000000000000000000000000000000000000000
Contempor	COLIFORM (TCR)		
System Name: 90y1 notationV	COM, RIO PIEDRAS Monitoring, Routine Major (TCR)		

ЕИГОВСЕМЕЙТ ІЙБОВМАТІОМ:

GEOCHECK №- PHYSICAL SETTING SOURCE MAP FINDINGS

100031311 It 6:00-11

State Violation Reminder Notice	notice tri	12-90-1661	Lniorcement Date.
81/6116	Uniordement ID	7/90716	Ol nodelory
00 00000000	Analytical Value	10:50:9661 - 10:50:9661	Compliance Period
		COLIFORM (TCR)	Containmant
		Monitoring, Routine Major (TCR)	Violation Type:
		COVE BIO DIEDBAS	System Name
beight nag beig	noted to 3	05-60-4661	Finlorcement Date.
3€0000€	Gilfeamsonoln3	2290216	Violation IO:
90,00000000	Analytical Value	18:50-1661 - 10:50-1661	Comprisonce Penad
		COLIFORM (TCR)	Conlamnant
		Monitoring, Routine Major (TCR)	SQYT notalioiV
		COM BIO BIEDSAS	emeM matay2
baussi VOK lermof ben	monut ln3	₱0°90°₱661	Enforcement Cate,
∃29900₱6	Oi Inserraciolo 3	11900116	(Il noitsion/
0000000000	Analytical Value	18-50-4661 - 10-50-4661	Compliance Period
		COLIFORM (TCR)	Contaminant
		Monitoring, Routine Major (TCR)	Violation Type.
		COM RIO PIEDRAS	System Name
Fed FAC Issued	nouse in3	1834-15-14	Enforcement Date
6666696	Ol tramanologia	9490216	Ol nodslov
00 00000000	estay tentylenA	1894-06-01 - 1994-06-30	Compliance Period
		COLIFORM (FOR)	Contamant
		Monitoring, Reutine Mayor (TSR)	Violation Type
		COM BIO SIEDBYS	System Name
ection recrimeR maistain ets. c	nodoA InB	01 80-1661	Stallorcement Date
9120019	Ol insensorotn3	9490716	OI noteloiV
000000000	Solick learntsenA	0£-89-4681 - 10-80-5681	Compliance Period
		COLIFORM (TCR)	Contaminant
		Monitoring, Routine Major (TOR)	●qyT noilsloi√
		COM RIO PIEDRAS	System Name
Fed PA Dasuert	Ent Action	1994-09-20	Епіоковтьені Дэне.
94C0003E	Chloroeme It ID	9450516	Of noteloty
00 00000000	Analytical Value	06-90-9661 - 10-90-9661	Compliance Period
		COLIFORM (TCR)	Contaminant
		Monitoring, Routine Major (TCR)	Violation Type
		COM RIO PIEDPAS	System Names
beuzst 043 be3	Fol Action	\$1-Z1-p661	Enforcement Date
6666686	Ci Ingrasatolità	9450332	Qi notelotV
20000000	yugiveer value	16-90-1661 - 10-90-1661	Сошбрания Беноц.
		Turbiolity	Contaminant
		Max Contaminant Level Average	Violation 15pe.
		CONF RIO PEDRAS	System Name.
State Violation/Renarder Motice	Enf Action.	12-90-1661	eleC inemeavoin3
8146116	Ottes nanotna	9450315	Ol notision (D
000000000000000000000000000000000000000	outeVisaliylenA	18:50-9661 - 10:50-9661	Compliance Period
		Turbidity	Contaminant
		Max Contaminant Level Average	Violation Type.
		COM, RIO PIEDRAS	System Name
Ped PAO Issued	Enf. Action.	1884-09-20	Enforcement Date:
94C0003E	Ci trememolo3	8450346	Of nodsloiV
20000005 01	Analyteal Value	16-50-1661 - 10-90-1661	Compliance Penol.
		Turbidity	Contaminant
		Max Contaminant Level, Average	Violation Type
		COM, RIO PIEDRAS	ewen weisks

ENFORCEMENT INFORMATION:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

Eulorcement Dale:	1894-12-14	Enf. Action.	beutel DAR bar	
Violation (C).	8952963	Entorcoment ID:	666686	
Compliance Period:	15-70-2661 - 10-70-2661	Analytical Value	00 00000000	
Contamenant	ATW2			
eqy T noiteloi V	Monstoding, Routine/Repeat (SVTR-Unit	Cas		
System Name:	COM. RIO PIEDRAS			
Bite() Interneovalin3	1004-12	Ent. Action	Fed FAC issued	
Violation ID:	6252425	Enforcement ID:	6666596	
Comphance Period:	18:80:9661 - 10:80:9661	Analytical Value	000000000	
Contaminant:	COLIFORM (TCR)			
Violation Type.	Monitoring, Routine Major (TCR)			
System Name.	COM RIO PIEDRAS			
Enforcement Date	1994-12-14	Enf Action.	beutel OAR bert	
Of noteloiV	1905256	Chloroementing	6666586	
Compliance Period	06:90:9661 - 10:90:9661	Analytical Value	00.00000000	
Contaminant.	COLIFORM (TCR)			
Violation Type	Morntoring, Routine Major (TCR)			
System Names	COM, RIO PIEDRAS			
Enforcement Date	11-60-9661	notoA In3	State Violation/Reminder Notice	
:Cl nobbloiV	8252001	Enforcement 40.	6054403	
Compliance Period:	00:90-9661 - 10:90:9661	Analytical Value	00 00000000	
Contennent	COLIFORM (TOR)			
Violation Type:	Monitoring, Routine Major (TCR)			
System Name:	COM RIO PIEDRAS			
Enforcement Date:	1884-15-14	Eul Acaen.	Fed FAC Issued	
:Ot notision (C):	8952900	Enforcement ID:	6666686	
Compliance Period	16-80-8661 - 10-80-8661	Analytical Value	00.00000000	
Contaminant:	COLIFORM (TCR)			
System Name. Violelion Type	COM, RIO PIEDRAS Monitoring, Routine Major (TCR)			
Enforcement Date	#1-70-2001	Ent Actor.	State Viciation/Reminder Nobse	
Violation ID.	905296	O) Inemeanding	9654402 90000000 90	
Compliance Period:	18-50-5661 - 10-50-5661	Analytical Value	30 00030000	
Contaminant:	Monitoring, Routine Major (TCR) COLIFORM (TCR)			
System Name:	COM, RIO PIEDRAS			
Enforcement Date:	1994-12-14	Enforcement 10 Enf. Action	5899999 Fed FAC (ssued	
Compliance Pened Violetion ID;	9625032 1886-08-01 - 1886-08-30	Analytica: Value	90000000	
Contaminant:	COLFORM (TCR)	o dely resignable	b. 0000000	
Violetion Type:	Max Contaminant Level, Acute (TCR)			
System Name:	COW. BIO PIEDRAS			
Enforcement Date:	81-60-9661	Eut. Action:	State Public Norit Issued	
GI nordelioi V	6250035	Enforcement ID	2719296	
Compliance Penad	06-60-9661 - 10-60-9661	Analysical Value	00 000000000	
Contaminant,	COLIFORM (TCR)			
Violetion Type	Max Conteminant Level, Acute (TCR)			
System Name.	COM, RIO PIEDRAS			
Enforcement Date:	pi-71-966i	Enf Action.	Fed FAC Issued	
Gi noitstoiV	8252031	Ciloscement 10	668686	
Compliance Penod.	16:10-9661 - 10-10-9661	Sulsylical Value	00 0000000	
Contaminant.	COLIFORM (TCR)			
Violation 1,pe	Max Contaminant Level, Acure (TCR)			
System Name:	COM, RIO PIEDRAS			

ENFORCEMENT INFORMATION:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

TC0931911 N Page 4-20

ated Inemacicki	PO-SO-S66,	Enf Action	State Victation Reminder Notice
Oi norision	881+795	Utuneniechofnä	0052396
oubjeauce beriod:	10-60-9661 - 10-60-9661	euleV leal/ylenA	00 000000000
Trischnish Ka	COLIFORM (TCR)		
jojstiou j.kbs.	Monitoring, Routine Major (TCR)		
yatem Name.	COM. RIO PIEDRAS		
eleft toemenicin	11-21-1661	notes to3	belies, OAR beil
:Ol noitelo:	1M60796	I nforcerrent ID	6656686
ompliance Period.	87:80:96FL - 10:70:986L	Analytical Value	09 00000000
Justninisht.	PIWS		
eqv Trottelor	FTWS) IsageFilterInoR, gnnoilnolA	(III)	
emel/ melay	COM RIO PIED245		
HeG Insmeologic	01-10-9661	nation, in3	soluti tabrame Pinoteloi Vatet &
.Oj ucitejoi	1760256	Eutorement ID:	3523382
compliance Period	1995-02-01 1995-02-28	SuleV isocylenA.	000000000
Juenmetro	SYTR		
edki noseioi	Montoring, Routine/Repeat (SWTR	(hjur	
anien maisy	CONT. RIO PIEDRAS		
etsO inemedición	1994-12-14	Ent Acten	Fed FAC Issued
.Ol nortalor	8253840	Ci tria risorotri 3	6666696
compliance Period	1995-02-01 - 1995-02-28	Antel VestigenA	000000000
neometro	COLIFORM (TCR)		
ad4_ uouetoi	Mondoing, Routine Major (TCR)		
-хары уэте	COM. RIO PIEDRAS		
nforcement Date	01-90-9661	Enf. Action	State Violation/Reminder Mulice
Ol nodeloi	9223940	Ol Insmessioln3	9653585
compliance Period	1886-02-01 - 1986-02-28	Analysical Value	00 00000000
jueuwejuo;	COLIFORM (TCR)		
rolation Type	Monitoring, Roubne Major (TCR)		
ystem Mame.	COM. RIO PIEDRAS		
ele Clinemecholn	1304-12-14	Ent Action.	Fed FAID Issued
Olation ID:	9623450	Chinementaln3	6666586
bone4 eonsilgmo.	16-01-1661 - 10-01-1661	Analyical Vaic→	tic coocooc
quedimeno)	RTWS		
ed/ uojujoi.	STWS) feeqeRientinoR grinolinoM	(រដ្ឋម	
emeN metey	CONT BIG SIEDBAS		
Microsonal Date	90-61 1661	Enf. Action	State Violation/Remmedal Motors
:Ol noilelor	5253420	Enforcement ID:	2602396
bonsellonce Period	16-01-4661 - 10-01-4661	Analytical Value	00 00000000
ງແຄດເສຄາດວ	SWR		
ed/, nodelor	Maniforna, Routine-Repeat (SWTR	(th. Us	
Aspan Name.	COM. RIO PIEDRAS		
etsC tnemecroin.	#1 Z1 P661	For Action,	Fed FAC Issums
:Ol noilsion	6273320	Enforcement ID	6696696
outline Period	00-11-661-10-11-661	Analytical Value	000000000
ายคนหายานอา	STW2		
adA1 uogejoi,	Monitoring, Routine/Repeat (\$1V1R)	(agus	
ystem Mame	COM BIO PIEDRAS		
etsG Inemedicin	0.10-9661	noiteA In3	State Victation/Renainder Volus
Gi nodeloi	0900796	Ol Insmeroin3	9255529
bone9 eansilgmot	06-11-4661 - 10-11-4661	SuleVisalivienA	90 000000000
Journment)	STW2		
	Monitoring, Roubne/Repeat (SWTR	fune	
eqyT nobeloi	STW2: reage Beach of politotrick		

ENFORCEMENT INFORMATION

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

elisO inemecroln3	10-21-5661	Ent Action	State Violation/Reminder Notice
.Ol notation ID.	9909796	Ul trementing	0989796
Compliance Period:	16-01-9661 - 10-01-9661	auteV lesitylenA	17 10000000
COMBINISH	Turbioty		
AGN T Anitelouv	Max Contaminant (4ve), Average		
System Name	COM. RIO PIEDRAS		
Enforcement Date	1884-12-14	Eut Action.	Fed FAC Issued
Violation ID.	H+C9296	Chloroement in	6666396
Compliance Penori	16:01:9661 - 10:01:9661	Analytical Value	00 000000000
Contamnant	COLIFORM (TCR.)		
Arotation Lype	Max Conteminant Level, Monthly	(20)	
System Name	COM BIO PIEDRAS		
Enforcement Date	1882-17-01	Ent Action	State Public North Issued
Violation ID:	PPE9/96	Cil tresmenting	6763636
Compliance Period.	16.01-3661 - 10-01-3661	yualybeal Value	00 00000000
Contaminant:	COLFORM (TCR)		
Violation + ype.	Max Contamenant Level, Monthly	DHO I	
System Name	COM, RIO PIEDRAS	1001	
emeld metang	SAGGRIG (NG MOD		
Enforcement Date	1664=15-14	Enf. Action:	beusst DAR beR
Ol nodeloiV	3952482	Ci frementolria	6666686
Compliance Penoxi	1892-06-01 - 1362-06-30	Analylical Value	900000000
Contaminant:	SIMS		
Violation Type	Montorng, Routne-Repeat (5'NT	()(00)->-	
System Name.	COM. RIO PIEDRAS		
Eujocement Date.	Li-60-966i	Eul Action:	State Violation/Reminder Notice
Violation ID	Z8197v6	Enforcement ID:	925410.3
Compliance Period.	00:90:5661 - 10:90:5661	Analyscal Value	20000000 00
insminisho.)	HIMS		
Violation Type:	Montonng, Roubne-Repeat (SW)	menn v	
Буятет Иате	COM. RIO PIEDRAS		
Enforcement Date:	\$1-Z1-966L	Eut. Action:	Fed FAC Issued
Alekshon ID.	1895798	Gl trementoling	6666696
Compliance Period	18:50:9661 : 10:50:5661	Analyncal Value	90 60900000
Contaminant	STW2		
Violation Type	Mondoring, Routine/Renear (SW)	(BLUTTE	
System Name:	CCM BIO DEDBAS		
			34
Enforcement Date:	*1-10-StG1	Ful Action	State Violatiper Reminder Notice
Ol notaloiV	S625481	Ol tromponoln3	3954102
Comprisince Period	16:30-3661 = 10-50-\$661	Analytical Value	000000000
Contaminant:	gtwz		
Violation Type:	M:C) tesqeRienduoR .grimotincM	(յլյսդ-չ	
System Name.	SARGSIS OIR MOD		
Enforcement Date.	ti-Z1-v661	Ent. Action.	Fed FAC Issued
Violation ID:	956796	Fujorcement (D.	666686
Compliance Period:	06:60:5661 - 10:60:5661	Analytical Value	06.00000000
Contaminant	SWIH		
Violation I ype	Montoing Routes/Repeat (SW	(meuro->-	
System Name.	COM, RIO PIEDRAS		
Enrorcement Date	11 Z1 r661	Eug yearen	Peo FAC Listued
Violation ID:	1919796	Enforcement ID:	6666686
Compliance Period.	16.80-5861 - 10-80-5661	Analytical Value	000000000
Contaminant:	SWIR SWIR		10 00320300
Alolabon Lype	Montonng, Routine-Repeat (5/W	(IE:UO->-	
System Name	CON BIO PIEDSAS	(IIS-41 C	

ENFORCEMENT INFORMATION.

GEOCHECK ®- PHYSICAL SETTING SOURCE MAP FINDINGS

1C-06513.4 It P:6156031

Enforcement Date	p.=21=v661	notoA las	Deukel DAlibel
Ut nodelow	90/1796	Littemecroted	656658ts
солоручись Белод.	1995-04-10 10-2001	Analytical Value	00 00000000
Contaminant	COLIFORM (TCR)		
violation Type:	Max Contaminant Level, Arrale (TCR)		
System Name	COM RIO PIEDRAS		
With the common Date:	90-90-5664	Ful Acten	State Briblic Most (seried
Ol noteloty	9524705	Gi toe memolri3	/rot256
Compliance Penod	Of. to: 9661 - 10-to-9661	SUMBY MEDICARRIA	00 0000000
Contaminant	COLIFORM (YCR)		
violation Type.	Max Contaminant Lavel Acuse (TCR)		
ameM midsy3	COM, RIO PIFDRAS		
Enforcement Date	1994-12-14	n pyr 4 ln∃	beussi OAR berg
Ol notisloiV	9957396	Enforcement ID:	6666686
сошиняние Белод.	15-10-5661 - 10-10-5661	Analylical Value	56 00000000
Contaminant.	Vibiant		
Aictation Type	Max Contaminant Level: Average		
smell meley?	COM RIO PIEDRAS		
ate() Inemeno/n3	90-20-5661	Ent. Action	schol/ tehneral notatol/ etat2
GI nonsionV	990+296	C. tramassolnia	90723708
Compliance Period	15:10 9861 10:10:9661	e-liky entylenA	99 00000000
Confarmant.	Turbidity		
Aloggou ; No.	Max Contaminant Level, Average		
emel melays	COM BIO DIEDBAS		
Enforcement Date	\$1-Z1-\$661	Enf. Action	Fed FAC Issued
Violation ID:	8251382	Ol (ramamoin3	6666586
Compliance Period:	15-10-5661 - 10-10-5661	Analytical Value	00 00009300
Contaminant	COLIFORM (TCR)		
violation Type:	Max Contaminant Level, Acute (TCR)		
email melay 2	COM RIO PIEDRAS		
Solorcement Date	1995-03-06	Enf Action	becesi troif afour sinic
.Gl notistor /	9961796	Enforcement ID:	4015536
Compliance Period.	15:10:3661 10:10:3661	Analytical Value	00.00900000
Contanyaant	COLIFORM (TCR)		
Aidlation Type	Max Contaminant Level Acids (T.13)		
small matey 2	COM RID PIESRAS		
Sulorcement Date	ומשל וליול	Ent Action	Fed FAC Issued
Ot nodelory	681+799	Ol tromomotri3	666638G
Compliance Pened	1895-03-01 - 1395-03-31	Analytical Value	00 009900000
Contaminant	RTW2		
Violation Type	Monitoring, Routine Repeat (STA-Lin	91	
System Maine	COM, RIO PIEDRAS		
Eniorcement Date	1002-004	notice In3	Scale Vication/Reminder Voluse
Ol nodałosy	681186	Gi Inemediate	952350
Compliance Poned	16-60-3601 - 10-60-3661	Analyscal Value	00 00000000
Contaminant:	ATW2		
Violation Type	Monitoring, Routine/Repeal (SWT9-Uni	(1)	
emen meleys	COM, RIO PIED?AS		
Enforcement Date	1889115-119	month ins	beussi OAR beR
Arolation ID:	9924188	Chloroement 10	6666586
Compliance Penod	16.66-2661 - 10.00-2661	Analytical Value	00.00900000
Contaminant	COLIFORM (TCR)		
	Monitonny, Routine Major (TCR)		
System manus: Violation Type	COM MIO PIEDRAS		

ENFORCEMENT INFORMATION:

GEOCHECK # - BHARICAL SETTING SOURCE MAP FINDINGS

Enforcement Date:	1884 08-50	Enf. Action:	Fed PAQ Issued
Ut noteloiv	666646	Enforcement ID	94E0003
Compliance Period	1992-01-01 - 2015-12:31	Analytical Value	0
Contaminant	ATWE		
Violation Type:	Failure to Filter		
System Mame;	COM, RIO PIEDRAS		
Enforcement Date	10-90-1661	noinA In3	heural VOM famos hes
Violetion ID:	6666626	Ol tremenoin3	34E0005
Compliance Pened	1992-01-01 - 2015-12-31	Analytical Value	.0
Contaminant	ATWS		
Violation Type.	Failure to Fatter		
System Name:	COM RIO PIEDRAS		
Enforcement Date.	1993-15-30	Enf Action:	Fed Formal YOV Issued
 Ol noitekeiV 	66666.26	Enforcement ID	1000316
Compliance Penod.	1992-01-01 - 2015-12-31	Analytical Vatue	0
Confampant	ATW2		
Violation Type:	Failure to Falter		
System Name.	COM. RIO PIEDRAS		
Enforcement Date	75-69-1002	Ent Action:	beuzzi OA∃ be∃
Analogon ID.	6666646	Oi InemeanoIn.3	05E0004
Compliance Period	1885-01 01 - 2015-12:31	Analytical Vatue	C
Confammant	RTW2		
Polision Type	Failure to Filter		
System Name	COM RIO PIEDRAS		
elia insmisoriolni	21-00-6661	INDEDA 163	State Violation/Reminder Notice
Ol nodeloiV	6666626	Chlorcement ID	P001 P66
Compliance Period.	16:10:6661 - 10:10:6661	Analytical Value	00000000 00000000
Contaminant	RTW2		
eqt T nobelotV	Montoring, Foutnefflepeat (SWTR	(195	
System Name	COM BIO PIEDRAS		
Enforcement Date:	2001-09-27	Ent Action:	beuzel QAR beR
Ci notelory	6865£16	Ci Insmedicinal	05E0001
Compliance Penod.	5005-03-01 - 5005-03-31	Analytical Value	C
Contamanant	STWS		
Act 7 noneloiV	RTW2) heaqeRianduoR goriotenM	(ag	
System Name.	COM RIO PIEDRAS		
Eurocement Date:	5005-09-13	Ent Action.	State Victation/Reminder Notice
Ol nobisiolV	9666626	Chlorocoment ID	9768320
Compliance Period.	2002-93-01 - 2002-93-31	Analytical Value	C
Contaminant	SWZ		
Violation Type:	Monitoring, Routine/Repeat (SVVS)	(sug	
emel/ malay2	COM RIO PIEDRAS		
Enforcement Dale:	2001-09-27	Ent. Accom:	Fed FAO Issued
Violation ID!	6666££6	Chlorcement ID	05E0001
Compliance Pened	2002-01-01 2002-0131	Anakylical Value	0
Contaminant	ATW2		
Violation Type:	Montoring, Roubne/Repeat (SWF)	CHE	
System Name:	COM RIO PIEDRAS		
Enforcement Date:	2002-03-18	Enf Action:	State Violation/Remarket Motice
'Cl noitelor	6666616	Cl Inemediated	0258375
Compliance Penod	2002-01-01-2002-01-31	Analytical Value.	9
Containmant	STWS		
Violation Type	Montoning, Rousine-Repeat (SWTR	(u)	
System Name	COM 810 PIEDRAS		

ENFORCEMENT INFORMATION:

GEOCHECK'S- PHYSICAL SETTING SOURCE MAP FINDINGS

100931914 It Page A-24

Sin notation (D: Enforcement Date	11-71-1561 6FC97 9 6	Enforcement ID Enf. Action:	9899999 Fed FAC lasued
Compliance Period	16:21:5061 - 10:21:5661	Analytical Value	90.00000000
Contaminant	COLIFORM (TCH;		00 3000000
Violation 1 ype	Monitoring, Rougine Major (TCR)		
System Name:	COM, RIO PIEDRAS		
Enforcement Date:	£1-20-9661	Eul Action	State Victation/Renander Motors
Oi nodeloiV	6826349	Enforcement ID	9628353
Compliance Period.	18:71-9661 - 10:71-9661	Analytical Value	-,000000000
Contaminant.	COLIFORM (TCR)		
violation Type	Monitoring Routine Major (TCR)		
System Name.	COM RIO PIEDRAS		
En/orcement Date	1884:15-14	notes Ins	Fed FAO Issued
Violation ID:	9626348	Enforcement ID:	6666596
Compliance Period:	1892-12-01 - 1892-12-31	Analysea? Value	20:0000000
Contaminant	Turbiday		
Anoistion Type	Max Contaminant cavel, Average		
System Name	COM RIO PIEDRAS		
Enforcement Date.	1896-02 13	Enf Action:	State Victation/Remarder Notice
Violation ID.	81-69-796	. Gl Interneprioln3	9626263
Compliance Period	18:21:9661 - 10-21:9661	Analysical Value	30000001 0).
Confaminant:	Modul		
AIGIBION : YDE	Max Consminant Level, Arerage		
entekt metay?	COM SIO PIEDRAS		
elsQ inemediciting	1664 15 14	Soft Action:	beussi DAR beil
Violation ID.	ZPC9Z95	Enforcement ID.	6666696
Compliance Period	06-11-2061 - 10-11-2061	euleV leurylienA	0000000000
Confammant	STW2		
enselv metek eqt Trousloiv	COM RIO PIEDRAS Monitoring, Routina/Rapeal (SWTR-	algor	
Enforcement Date	60-10-9661	Enf Action:	State Violetion/Reminder Motios
:Ol notation	6626347	Cil Insmanioln3	9626351
Compliance Period	06:11-5661 : 10 11 5661	Analylical Value	00 000000000
Conteminant	RIWE		
Molalion Type	Montoding, Routine/Repeat (SWTR-	(ippur	
EMEN Meley2	COM. RIO PIEDRAS		
Folor cement Date	1284-15-14	Eul Action:	beuzst OAR beR
.Ol notision/	9859346	Gilloreementing	666658G
Compliance Period	00:11:9661 10:11:9661	Analytical Value	000000000
Containinant:	COLIFORM (TCR)		
Violation Type.	Monitoring, Routne Major (TCR)		
System Name.	COM RIO PIEDRAS		
Enjorcement Date	60:10:9661	Enf. Action:	State Violation Reminder Motos
Ol notation?	6626346	Enforcement iD:	1989696
Compliance Penol	00-11-9661 - 10-11-9661	Analytical Vatue	00 000000000
Contaminant	COLIFORM (TCR)		
Violation Type:	Monitoring, Routine Major (TCR)		
System Name	CON. RIO PIEDRAS		
Enforcement Date	1994-12-14	:notoA In3	basizzi 044 ba4
Ol notation ID.	9626345	Chloroement ID	6666386
Contaminant: Compliance Period	10-01-9661 - 10-01-9661	Analytical Value	17 10000000
Violation 1 ype	Max Contaminant Level. Average		

ENFORCEMENT INFORMATION:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

Enjoucement Dale:	5001-02-18	Cof Action	State Public Notif Issued
Ul nodelon IU:	66666/6	Ul Inememornal	78#4610
Compliance Period	2001-04-01 - 2001-04-30	Analytical Value	c
Containnant.	COLIFORM (TCR)		
ACT (T notision)	Max Contaminant i evel, Acute (TCR)		
System Name:	COM, RIO PIEDRAS		
elic() trememoln3	02- 50-75 61	notice to 3	Fed PAO Issued
Violation ID:	6666646	Citionement ID	€0003¥€
Compliance Penod:	1692-01-01 - 2015-12-31	Analybeal Value	000000000 00000000
Contaminant:	STW2		
людаром 1 Мас.	Failure to Fitter		
emen metays	COM RIO PIEDRAS		
Shlorcement Date.	#0-50-#66k	Enf. Acton.	bauesi VOV ismnot bait
Vicination (I)	66666.76	Ci insmessioln3	94E0005
Compliance Period.	16-21-5102 - 10-10-2661	Analytical Value	000000000 0000000
Contaminant	SWIR		0,000,0000 0000000
Violation i ype	Failure to Filler		
System Name	COM RIO PIEDRAS		
ameld methy?	SUBDISION BIOD		
Enforcement Date.	1993-17:30	Ent. Action:	Fed Formal NOV Issued
Q: noteloiV	6866646	Ol Inemediating	94E0004
Compliance Period	18-61-5106 - 10-10-6661	SuiteV isosytenA	000003000 000000C
Contamenent	SITWS		
Violation Type.	Failure to Filter		
System Name:	COM: RIO PIEDRAS		
Enforcement Date.	1994-17-14	Enf. Action.	Fed FAC Issued
Violation ID:	66666/6	Ci snementing	666686
Compliance Period	1885-01-01 - 5312-15-31	Analytical Value	2000002000 0000200
Contamant:	HLMS		
Violation Type.	refit of enulie f		
System Name	COM. RIO PIEDRAS		
Enforcement Date	1994-09-20	Ful yearen	Ped PAG based
OI nodeloiv	6666616	Ul Insmessions	34F0603
Compliance Penod	1685-01-01 - 2019-15 31	Analyteal Value	200000000000000000000000000000000000000
Contaminant	SWIR		000000000
Aloledon Lype	Failure to Filter		
System Name	COM, RIO PIEDRAS		
Enforcement ()-sie	PO-SO-1661	notice in E	Ped Formal NOV Issued
G! nodeloiV	666667G	Difrompoining	94E0003
Compliance Penod	16-21-5-02 - 10-10 266L	Analytical Value	000000000000000000000000000000000000000
Contament	HIMS	o dold to sind o A	0.0000000000000000000000000000000000000
Violeton Type:	19311-1 of Shuke 1		
System Name:	COM. RIO PIE0RAS		
Enforcement Date	1883-15-20	Enf. Acton:	beuzel VOM lamon ben
Violation ID:	6866626	Enforcement ID.	84E0001
Comptence Period:	1992-01-01 - 2015-12-31	outely tentified A	200000000 00000000
Contaminant.	ATWZ		
Violation Type:	Failure to Fifter		
System Name	COM. RIO PIEDRAS		
Enforcement Date	#1-21-F661	Full Action	Fed FAO Issued
Oi notaloi V	6666616	Gi tremsmoth3	6696686
Compliance Period	1892-01-01 - 2015-12-31	Analytical Value	0
Contaminant:	ATWS		
Aiolation Lype:	Failure to Fitter		

ENFORCEMENT INFORMATION:

GEOCHECK® - BHASICYT SELLING SONBCE WAP FINDINGS

100931914, Fege A-26

inforcement Date;	2004-09-27	Ent Action:	Fed FAC Issued
Oi nonsion	6866676	Entorcement ID	OSE0001
pountieuce Persod	2001-09 01 - 2001-09:30	Analytical Value	C
Josephosino	ATW2		
edk1 nothion	Monitoring, RoutherRepail (SV	(ligury-81	
System Name	COM BIO SIEDISAS		
eleCl toemecroln-	2001-11-14	Eul Action	State Violation/Reminder Motos
Ol noilsloi V	6666946	Chicement Entorogement	8465210
Compliance Period	S001-08-01 - S001-08-30	Anisk visualylismA	0
วิทธภาเทลาคอ	RTW2		
eqy1 nodeloiv	Monitoring, Routne-Repeat (SV	(IRAU-FT	
amen metals	COVI BIO SIECSYS		
ated triemeorote	5001-08-53	Enf. Action.	Fed FAC Issued
Ol noilsion	6666676	Eulocement ID.	05E 900 I
Compliance Period.	2007-07-04 - 2001-07-31	Analyscar Value	G
Contaminant	ATW2		
violation Type	Monitoring Roubne-Repeat (SV	(Winu-ST	
System Name	COM, RIO PIEDRAS		
Enforcement Date:	2001-09-11	nadaA In3	State Victation/Reminder Motics
Ol noibbloty	6966646	Of fremenoin3	2209010
Compliance Period	2001-02-01 - 2001-02-31	BulleV lephylisnA	0
Position Constitution (Constitution)	ATWS		
Anolation Type	Monitoring, Routine/Repeal (5V	(iii)rU FT	
System Name:	COM BIO PIEDRAS		
Enforcement Date	50-80-L00Z	Enf Actor.	State Violation/Reminder Voltos
Oi nodeloiv	66666/6	Enforcement ID.	9919910
Compliance Period	06-90 1005 - 10-90-1005	Analytical Value	e
Interneting	RTWS		
John Type	Monitoring, Routine/Repeal (S'	(IRAU-RT	
emeM metaya	COM, RIO PIEDRAS		
Enforcement Date	5001-90-1007	Ent. Action.	State Violation/Reminder Notice
Oi nodslotv	6666626	Enforcement ID:	9949910
Comphance Period	5001-04-01 5001-04-30	Analytical Value	C
InsometroC	ATW2		
Broy T notation V	(S) leageRientroR grinofinoM	(1)9'011'83.	
System Name:	COM RIO PIEDRAS		
Enforcement Date	5005 04:19	Enf Action	State Victation/Reminder Motice
.Gi notision i.G.	6666623	Of tripmopioling	0558377
Compliance Period	2002-02-01 - 2002-05-28	Analylical Value	0
Contaminant.	Thirdidy.		
Adv Triolation Type	Max Contaminant Level Average	=	
smeM melay	COM RIO PIEDRAS		
Enforcement Date	Not Reported	nousk In3	Not Reported
Gi nodsloi\	66666026	OI toemeototri3	Not Reported
Compliance Pened	1885-01-01 - 5012-15-31	Analytical Value	000000000 0000000
RiemmathoC	ATW2		
eqy 7 nousloi'v	Failure to Fittes		
System Name	COM BIO PIEDRAS		
Enforcement Date	1943-15-30	nottoA In3	beuzet VCM lamp3 beil
Gl notision	66866046	Gi Inemeorotri 3	94E00001
bone4 sonsilgmoD	1992-01-01 - 2015-12-31	euleV learylenA	000000000 0000000
Contaminant	ATW2		
Violation Type:	halfill of enulis?		
System Name	COM RIO PIEDRAS		

ENFORCEMENT INFORMATION:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

Analytical Value 0000000 000000000 Enforcement ID 94 E00002 Enforcement ID Fed Formal NOV lasued Inc. Action: COM, RIO PIEDRAS SWITE SWITE 1990.38366 1934-05-04 Analytical Value | Mot Reported | Fot Adlon: | Mot Reporte exect tnemecroins COM, RIO PIEDRAS 9003820 1998-66-01 - 1998-06-30 Morklorink (TCR) COLIFORM (TCR) Morklorink (TCR) Analytical Value 0000000 000000000 Enforcement (0.) Not Reported Information: Not Reported COM, RIO PIEDRAS Monforma, Routine Major (TCR) 99036229 Worl Reported Worl Reported System Name: Violation Type. Compliancent: Violation IC. Violation IC. CONF. NO DIEDRAS

GONEROS (1CR)

COLIFORM (1CR)

CON SIO DIEDRAS

CON SIO DIEDRAS ACM, Reported Elementary (SWTR Untill) (Mondored), Foundamentary (SWTR Untill) System Name: Violation Type Contaminant, Violation ID Violation ID System Name System Name Analytical Value Enforcement ID Enf. Action: COM, RIO PIEDRAS

Worlburg, RoutnavRepeat (SVVTR-Unfill)

SWITR

1986-05-01 - 1998-05-31 M

1986-05-02 - 1998-05-31 M

ROSTEDRAS

COM, RIO PIEDRAS COM RIO PIEDRAS
COM RIO PIEDRAS
GOING (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05-31
1998-03-01 - (1988-05 Eul Action

Eulorcement ID

Mot Reported

Analytical Value

D000000 000000000

ENFORCEMENT INFORMATION:

GEOCHECK 8- PHYSICAL SETTING SOURCE MAP FINDINGS

TC0931914 IL Page A 28

0. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Enforcement ib Enforcement ib Ent Action	COLIFORM (TCR) 2001-07-01-2201-07-31 9799999 2001-09-11	Eulotcement Date: Compliance Period: Containment.
		COAL RIO PIEDRAS Maniforing Routine Major (TCR)	System Name Violation Type:
6 62422.0 Sch28 vel vnin ve Arnottick's vises?	Analysical Value Enforcement iD Enf. Acrieni	2001-08-08-08-08-08-08-08-08-08-08-08-08-08-	Eulorcement Date: Compliance Penod Contaminant System Apple:
ector) asiamine Rundistat vales 6 85452 ro 0	aolaV laoityanA Ol finemeniologi notioA fin3	2001-01-15 01-2888 2001-02-01-2801-02-31 2001-02-01-02-31 2001-01-15 COW BIO SIGNO COW	Enjacement Date Arighton ID Containinant Containinant Containinant Arighton ID
0 02/50001 Fad FAG Issued	Analysical Value Enforcement III.	2001-09-35 37,39999 COFILORM (LCR) May Contended Faser Yeare (LCR) COM RIO SIEDEVES COM RIO SIEDEVES	Eulocement Date: Compleand Beind: Containing Pend: Avalation Type: \$\lambda 8 \text{Autor}
n 2258379 S raie Pu olic Most Issued	Analytical Value Enforcement ID: Enf. Action	CONF.NO SERVE B179999 SO02-04-16 COLIFORM (TCR) COLIFORM (TCR) CONF.NO SERVE CONF.NO S	System Name. Violation Type Containmant: Compliance Period Violation IUI: Enforcement Date:
0 02€0007 beuzel DAR ber	Analytical Value Gilmementofa G	COM, RIO PER (FCR) Max Controlled (FCR) Max Controlled (FCR) 2002.01.01 - 2002.01.31 9199999	System Name Volkston Type Contaminant Violation ID: Enforcement Oale
0 8768329 State Futble boold less/ed	Analylical Value Enforcement IS Ent Action	2037:02*18 2002:02*04:04	Eutocoment Date Compliance Seriod. Contemnant Volation Type System Name
0 02E0001 Fed F&C Issued	Analytical Value Enforcement Of Enforcement	COM, RIO PELENAS 979899 2001-09-01 - 2001-09-31 2001-09-01 - 2001-09-31	System Name Violation Type Contaminant Contagence Ported Polection ID:
0 9453310 beusel lipod 5 lipu 3 eles 2	euleVical Value Ol friemeznotica Inplical fria	COM, RIO PIEDRAS 9739993 7001-6607 - 2001-08-31 7001-16-07 - 1001-08-31 7001-16-22	System Name Containment Containment Violation ID Enforcement Date.

ENFORCEMENT INFORMATION:

GEOCHECK *- PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement Date:	51-10-6661	nonsk in3	State Violation/Remander Notice
Violation ID:	39078434	Enforcement 10:	7486508E
Compliance Penod	16.01.8961 - 10.01.8961	Analytical Value	00000000000000000
Contamended	SWR		
Violation Type	n.J.FTV:2) IsageRentusB grinolinsM	(1)	
System Name	COM RIO PIEDRAS		
Ецкисешем руж.	41-51-4661	nonné ing	Fed FAC Issued
G) nodeloiv	99039433	Cnforcement:D	66666096
Compliance Period	1885-04-04 - 50:2-45:34	Analytical Value	0000000 00000000
Contaminant	SWTR		
Violeton Type.	Failure to Fifter		
System Name.	COW BIO SIEDSAS		
Enforcement Date:	\$1.21-p66L	Enf. Actor	Fed FAC Dayled
(i) notheloiV	29039432	Enforcement ID	66665086
Compleince Ferrod.	1885-01-01 - 5042-15-31	Analytical Value	000603000 00000000
Contaminant	STW2	,	000000000
Arolegou , Aba	Fallute to Fifter		
emen melens	COM RIO PIEDRAS		
Enforcement Date,	10-11-8661	Eut Action	State Public Notif Issued
Of nodelosy	\$6006434	Chtrierrearcting	90692986
Compliance Period:	FE-80-8691 - FO-80-8661	SuisViscal Value	000000000000000000000000000000000000000
Contaminant:	COLIFORM (TCR)		
Violation Type:	Max Correminant Level, Acute (TCS)		
emeM metry2	COM, RIO PIEDRAS		
Shick memeroning	₱0 · L L 366L	Enf. Action.	State Victation Reminder Notice
:Oi notekoiV	06039430	Ol fremenotri3	\$008£086
Compliance Period.	15-80-8661 - 10-80-8661	Analytical Value	000000000000000000000000000000000000000
Contempant	Turbidity		
Advi notatioiV	Mex Contaminant, evel, Average		
System Mame	COM. RtO PIEDRAS		
Enforcement Date	Mct Reported	notak In3	Not Reported
CI nodeloiV	96029998	Enfor errent ID	behodefi toM
Compliance Penod:	16:80:8661 - 10:80:8661	YUSIADOSI ABING	000000000 0000000
Contamoant	COLIFORM (TCR)		
Archahos Type	Wax Contaminant Level Acute (TCR)		
System Name	COM, RIO PIEDRAS		
Enjousement Date	90-01-8661	notok Ins	State Victabon/Perminden Notice
Ajojegou ID.	96038096	Eutoroament ID:	90686086
Compliance Period	1996-07-01 - 1996-07-31	Analytical Value	00000000 00000000
Contaminant:	HIMS		
Ajojspou Lkbe.	Monitoring, Routine/Repeat (SWTR-Lin	(uc	
System Name.	COW BIO DIEDBYS		
Enforcement Date.	02-60-1661	Enf Action.	Fed PAC Issued
Violation ID	76693096	Enforcement D.	34E00003
сотрудное Ретод	16-21-5162 - 10-10-2661	Analytical Value	300000001 10000000
Contaminant	8TW2		
Violetion 1ype.	Failure to Fulter		
System Name	COM BIO PIEDRAS		
Enforcement Date.	yct geboued	Enf. Action:	Not Reported
Violation ID	/6682096	Enforcement ID:	Not reported
Compliance Penod	15-80-8861 - 10-80-8981	Analysca: Value	00000001 10000000
Contaminant	(regord)		20220007.70000
Violation Type	Max Contaminant Lavel, Average		
System Name	COM BIO PIEDRAS		
13	0.0000 0.0 1100		

ENFORCEMENT INFORMATION:

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

100931914 It Bade 4-29

.eleC friementOale.	behone? IoM	Ent Action	Not Reported Not Reported
Ul notision V	99691696	Ultrenseriell	
Compliance Period	16-10-8961 - 10-10-8961	e risV leallylienA.	0000000000000000
Containing	COLIFORM (TCR)		
PilyT noteloiV	(RDT) rojeM endugR (prinofinoM		
System Name	COM, PIO PIEDRAS		
eted toameonolog	Not Reported	north In 3	Not Reported
Ol nodslorv	99030096	Ottoerneoratio	Not Reported
социфиямся Белод	16-60-8661 - 10-50-8661	Analytical Value	000000000000000
Contaminant:	STWS		
sqy1 nodalory	Mondoring, Routne/Rapear (SVVT)	(1	
HUEN WHITHS	COM RIO PIEDRAS		
Enforcement Date	Not Reported	noileA 3n3	Not Reported
Cli nedskary	P903284	(Hinemeonofin-i	papous ion
Compilance Period:	87-20-9661 - 10-20-9651	Analytical Value	000000000000000000000000000000000000000
Contaminant:	SMIK SMIK	a dell'icondeas	000000000000000000000000000000000000000
Violation Type	Monitonng, Routine/Repeat (SWT)		
STATISTICS AND THE PARTY OF THE	COM RIO PIEDRAS		
Enforcement Date	Not Reported	Enf. Action:	Not Reported
Of notision	86032823	Gi Insma: notnig	behodes toM
boins9 sonsigmo0	16-10-8961 - 10-10-8681	Analylical Value	20000000 000000000
Contaminant	SWTR		
9QVT SOUBION	Monitoring, RousnesRepsal (SWT)	()	
emeN metay2	COM RIO PIEDRAS		
Enforcement Date	77-60:1007	Ent Action	beass! OA1 be1
Of notision	6666676	Enforcementill	DZE9904
Compliance Period	\$605-03-01 - \$505-03-31	Antakyrcal Value	0
(nemmetno)	COLIFORM (TCR),		
Violation Type	Monitoring, Rouene Major (TCR)		
етлем телгүг	COM RIO PIEDRAS		
enioroemeni Daie	£1-90 2002	Ent Action	эзээ даринганийн дороо
Ul notision	66666.16	Enforcementing:	9/58370
Compliance Period.	\$505.03 64 - 2002-031	Analytica Value	9166950
Contaminant	COLIFORM (TSR)	o dell'acatiques	O.
Violation Type	Monitoring Routine Major (TCR)		
System Vame System Vame	COM BIO PIEDRAS		
Enforcement Date	2001-09-27	manak hila	Fed FAC less ad
Violation ID:	6GG6CZ6	Gi mompmoin3	1000350
Compliance Period.	2001-09-01 - 2001-09-20	Analysical Value	0
Contaminant	COLIFORM (TCR)		
Violation Type	Monitoring, Routine Major (TCR)		
System Name:	COM RIO PIEDRAS		
Enforcement Date	5001-11-14	gur postou	State Violation-Reminder Motice
Violation ID:	866646	Enlorement ID	8769310
Compliance Period	2001-00-04 - 2001-00-30	Analyscal Value	0
Contaminant:	COLIFORM (TCR)	100	
Arolation Type	Monitoring, Routine Major (TCR)		
System Name:	COM RIO PIEDRAS		
Eniorcement Date	5001-08-27	Eut Action:	Penssi Cikil beil
eted toemessing	\$666676 200-1005	Ent Action	D2E0001
Compliance Period	2001-07-01 2001-07-31	Arialylical Value	3250004
Contaminant:	CONFORM (154)	or dall to situate to A	u
adf : Homerous			
System Name. Viotation Type	COM RIG PIEDRAS Monitoring, Routine Major (TGR)		

ENFORCEMENT INFORMATION:

GEOCHECK ** PHYSICAL SETTING SOURCE MAP FINDINGS

2966 Viciation/Reminder Notice 0000000 000000000

State Violation/Reminder Motion 994,3885 000000 000000000

Fed FAC lasued

9666686 00000000000000000

Analytical Value Enforcement ID Enf. Action.

Analytical Value Enforcement ID. Enf. Action.

Analysea Value Enforcement ID Enf. Action:

(slinc.1.9TW2) respectivent (perceivable personnoid a RTM2 | 10-80-eeet | 10-80-eee

Monitoring, Routined-Repeat (S/VIV) (Ritin) 8TW2

A 16:70-996t - 10-70-986t

3 8844496

COM. RIO F

80-60-6661

1994:12-14 Failure to Failure STW2 15.51-5105 - 10-10-10981 804-4408 COM RIO PIEDRAS

COM BIO SIEDBYS

06-30-9991 = 10-30-9991 73bhh99 07-80-9981 COM. RIO PIEDRAS Mondoning, Routine/Repeat (S'NTR-Unfill) SYTR 1999-06-01 = 1999-06-30

COM RIO PIEDRAS Failure to Fritter SWTR 1992-01-01-2015-12-

COM RIO PIEDRAS 1994-01-01 - 2015-12-31 1992-01-01 - 2015-12-31 1994-01-01 - 2015-12-31

COM RIO PIEDRAS Switer to Filter 5943370 1994-05-04

COM BIO PIEDRAS

1999-02-13 2010-06W (108) 2010-06W (108) 2011-06W (108) 2011-06W (108) 2011-06W (108)

GEOCHECK № PHYSICAL SETTING SOURCE MAP FINDINGS

1884-08-20 1992-01-01-2015-12-31 Failure to Filter SYTWS

1994-12-14 COM RIO PIEDRAS Faiture to Filter SWTR 1992 01-01 - 2015-12-31 9944465 System Name: Violation Type: Contaminant Violation ID: Violation ID: System Name:

System Name Violation Type Contaminant Violation II)* Enforcement Date System Name:

System Name: Violation Type Complance Pendd: Complance Pendd: Violation Type Complance Pendd: Violation Type Vi

Compliance Period Violation ID: Enforcement Date.

System Name: Violation Type: Contaminant

Evaluation Type: Violation Type: Completine Penod Completine Penod Completine Penod System Type:

System Aame: Violation Type: Contamment: Completion ID; Violation ID; System Mame: System Mame:

Confammant Compliance Period Violation ID: Enforcement Date

ENFORCEMENT INFORMATION:

Complement System Value (Complement System Value)

System Value

System Value

System Value

System Value

Enforcement Date Compliance Period

Eujocesuseuj Daje System Naine: Violation Type: Complience Penod: Violation III

System Name.
Containment
Containment
Compliance Period
Violation ID
Enforcement Date
System Name.

Eukocement Date Violation IVpe Compliance Period Confaminant Violation ID:

System Date:

System Date:

Confainment
Violation **

System Asset

System Name

System Name

System Name

System Name Violation Type: Containment Compliance Penod: Violation 10 Finorcentant Date System Name

System Name: Violation Type Containinant Compliance Pened: Violation ID Enforcement Date: Enforcement Date: System Name

System Name Violation Type: Containment

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Eujoteemeni Dale
Contaminant
Contaminant
Contaminant
Violation Type
System Name COM RIO PIEDRAS SWTR SWTR 1998-11-01-1998-11-70 ENEORGEMENT INFORMATION

136809113	noitoA In3	beneal took alidud east&	
681/01/66	Of marriagnoln?	7001Þ66	
87-20-8861 - 10-70-6661	Analytical Value	00000000000000000	
COLIFORM (TCR)			
Max Contaminant Level. Acute (TCR)			
COM: BIO SIEDBAS			
1888-03-15	Enf. Action.	becasi Inch aliung stats	
8810166	Enlorcement if)	9001166	
1838-01 01 1888-01-31	Analylical Value	00000000000000000	
COLIFORM (TCR)			
Max Contaminant Level, Acute (TCR)			
COM BIO PIEDRAS			
1999-04-13	Enf. Action	State Violation/Reminder Notice	
2810166	Ol Inemagnoln3	9001166	
1999-02-01 - 1999-05-28	Analytical Value	000000000 0000000	
BIMS			
Mointowing, Routine/Rapear (SW13-Li	(ppc		
COM. RIO PIEDRAS			
1999-02-02	Ent Action	action rebrimaRimolistoly atst2	
90030439	Ci tnemeosola3	6966066	
1998-12-01 - 1998-12-31	Analytical Value.	0000000 00000000	
COLIFORM (TCR)			
Mointoning, Routine Major (TCR)			
COM: RIO PIEDRAS			
95-10-9901	notba 1n3	State Violation/Remander Notice	
38038432	Cinforcement ID	91666066	
06-11-8661 - 10-11-8661	Analytical Value	0000000 00000000	
COLIFORM (TCR)			
Monitoring Routine Major (TCR)			
COM RIO PIEDRAS			
\$1-10-6661	noise led	State Violation/Reminder Notice	
98966006	Oi Jesonspiele	Z₱66€06G	
15.01-8661 10-01-8661	Analyseal Value	2000000 00000000	
COLIFORM (TCR)			
Montoing, Routne Major (TOR)			
COM. NIO PIEDRAS			
1899-05-05	Ent Action.	State Violation/Remoder Notes	
98039439	Enforcement ID:	696C36646	
1928-12-01 - 1998-12-31	SoleV lesitylenA	000000000 0000000	
ATW2			
J.FTW2) IssageRienduoR grinolinoM	(អូមូប		
COM RIO PIEDRAS			
1999-01-26	Enf Action:	State Violation/Reininder Notice	
980,39432	Ol Inemedial	89038948	
06:11:8861 - 10:11:8661	Analytical Value	2000000 00000000	
VIII O			

1C0631814 11 Page A-32

GEOCHECK №- PHYSICAL SETTING SOURCE MAP FINDINGS

RCEMENT INFORMATION:

1994-12-14

COM, RIO PIEDAS Estiture to Filler SWTR 1992-01-01 - 2015-12-31 9MJJAS

00 21-000 8900166 8900161-01-01-01-01

COM RIO PIEGRAS Salure to Filler STWR

1994-15-14 294392-1995-01-01-5012-15-31 29110-6-10-1994 COVI MIO SIEDSYS

1992-01-01 - 2015-12:31 COM, RIO PIEDRAS Failure to Filler SWTR

COM, RIO PIEDRAS Monitoring Routins Minos (TCR) COUEDRA (TCR) 1999-06-01 - 1996-64-30 1999-06-08

COM, RIO PIEDRAS MAX COntemment (1994) COLIFORM (103) 9940-301 COM, RIO PIEDRAS COM, RIO PIEDRAS COM, RIO PIEDRAS

COM RIO PIEDRAS
Wontoing, RoutenarGepeat (SWTR-Unfill)
1990-05-01 - 1909-05-31 A
1990-05-01 - 1909-05-31 E
1909-07-0

Monitoring, Routine-Rapea (SVVR-Unitit) SVVR COM. RIO PIEDRAS

GEOCHECK'S - PHYSICAL SETTING SOURCE MAP FINDINGS

1993-12-30

01-80-6661

80 40-6661

1888-06-01 - 1888-06-30 COM, RIO PIEDRAS Monifoling, Routine/Repeat (SWTR-Untili) STR A 05-40-9961 - 10-30-9991

00 to 6661 10 to 6661

Enforcement Date:

System Name.
Violation Type
Contlaminant
Compliance Penod
Violation ID

System Name Violation Type. Contaminant Compliance Penod: Violation ID Enforcement Date System Name

System Name: Violation Type: Compliancert Compliance Period Violation ID Enforcement Date:

System Name Violation Type Contaminant Compliance Period Violation ID Enforcement Date

Compliance Period Violation ID.

System Mame Violation Type Contensant Violation 10: Violat

Compliance Period Violation ID: Enforcement Date

Finoncement Date

System Name Violation Type. Compliance Ponod Violation ID Violation ID

System Name
Combination Type:
Continument
Continument
Continument
System 19:

ENFORCEMENT INFORMATION:

8844882	Gl toamacrotol	69****66	Victation ID:
000000000 0000000	Analytical Value	1889-08-01 - 10-60-6661	Completion Period,
		COLIFORM (TCR)	Contaminant
		Monitoring, Routine Minor (TCR)	Ajoletion Type:
		COW, RIO PIEDRAS	System Name
Stale Violation/Reminder Notice	noiteA Ind	50-01-6661	Enforcement Date.
1861466	Chlorement ID	69***66	Ci notistory
000000000000000000000000000000000000000	Analyscal Value		Compliance Period
		COLIFORM (TCR)	Contamental
		Monitoring, Routine Minor (TCR)	Aiolation Type:
		COM RIO PIEDRAS	System Name:
State Violation/Reminder Notice	noited In-	80-60-6661	Enforcement Date
9941980	di inomocrolin	6941166	Violation ID:
00000000 0000000	SUISY SERVICE		Compliance Period.
		COLIFORM (TCR)	Contaminant
		Montoning, Routine Minor (TCR)	Violation Type:
		COM. RIO PIEDRAS	emel/ melay2
beussi OA9 be 3	Enf. Action:	1994-09-20	Enforcement Date:
84E0003	: Of the mesoning		Violation ID:
00000000 00000000	Analytical Value	1992-01-01 - 2015-12-31	Compliance Penod
		ATW2	Contaminant
		Fairure to Fairner	eqy 1 nodeloiV
		COM. RIO PIEDRAS	System Name
State Victation/Reminder Notice	Eut Acuen.	31.11.6661	Eurocoment Date:
9941982	: Ol toemeorotn3	6911166	-Cl nodeloiV
000000000000000000	Analytical Value	1999-09-01 - 1999-09-30	Compliance Penod
		STWS	Contaminant
		Montoning, Round-Rapeat (SWTR-Unfill)	Jack Type:
		COM BIO PIEDRAS	System Name:

eled Inai	St-11 6661	Ent Action	State Violation/Reminder Motics
:OI	6917166	Gi trementina	8844982
ce Period,	06-60-6661 - 10-60-6661	Analytical Value	000000000000000000000000000000000000000
:jue	COLIFORM (TCR)		
.adf.i	Monitoring, Routine Minor (TCR)		
ame	COM, RIO PIEDRAS		

100931314 N P369 A-33

94E0001 Fed Formal NOV Issued Endocement ID 94E0000 Petition Fed Formal NOV Issue

Ol Instructional Instruction

FOT ACTOR. Analytical Value Enforcement ID

Analytical Value Enforcert ent ID: Enf. Adiren.

Fed Formal VOV Issued 0000000 00000000

Fulloreament ID 2642883 2000 vocace Nature 2588 2000 vocace Nature 258 Volation/Reminder Nobel Decest Blow pilon, Falling

9865966 0000000000000000000 Eut Valicu. 2/94/3882
Eugocer.cut (D 00/43882
Vusikuesi Asine 3000000 00000000

Analyticat Value 0000000 00000000 000000000 Enforcement ID 9943884
State Violation/Remino State Violation/Reminder Morice

0000000 0000000 9943983 State Violation/Reininder Motice

1C0031814 It 5:00 4-35

BYDON
GEOCHECK & DHARICY RELLING RONGCE WAS ENDINGE

Epicenters: World perhapske opicontais, Richtix 5 or greater Source: Department of Commerce, National Desanc and Atmospheric Administration

Port Another Sept. 2005-64-97.0 (Sept. 2005-64-97.0) (Sept. 2005-64-97.0

PHYSICAL SETTING SOURCE RECORDS SEARCHED

100931914 IL Page A-36

язнто

NOT AMBORNI NOGAR ABRA

PWS, Public Water Spatient of Discourse of Public of Discourse of Public of Discourse of Discourse of Discourse Spatient of Discourse Spatient of Discourse Spatient of Discourse Spatient Office of Discourse of Disc FEDERAL WATER WELLS

100831814 It 5166 A-3V

USOS Were Weits: In November 1971 The United States Geologies Rules (USOS) implemented a notational water resource information and fine disabbase confaints descript, or information on sates where the USOS collects or this collects or the conformation of the set of the Collects or the COLLECT which is which examine making models and or punchables. The groundwaller disable models and or punchables and or punchables.

notification that the property of the property

List Direktondowing to produce with control of the second of the control of the c

STATOO: State Soil Ceographic Distalbases

To planting and a state of the State of

Geologic Age and Rock Stratigraphic Unit Several Geology of the Contempora U.S. at 1.2 500 (500 S.ale - A digital Source* P.6.3 Schrubes, R.E. Arrat and W.B. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and W.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. Kinds and M.M. Benkran $M_{\rm B}$ Contemporation of the 1974 P. M. Benkran $M_{\rm B}$ Contemporation of the 1974 P.

GEOLOGIC INFORMATION

malace motismorm Meconomics makes of processing the motismorm of the motis

HADROGEOLOGIC INFORMATION

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

NWI: Waternal Wethands Investion? This data, available in solod counties across the country, was ablained by EDR in 2002 from the U.S. Fish and Wildlife Service

lerabos, ent mort 8081 in 503 yd benisdo zaw, ydnivon sift scarpe, seninuest bafas in ekskieve, aladb eid. T AMER yd blaniaet as senes bodi suey-002 biet saey, 001 stolgeb eidel. (AMER) vonege Amerikaenski genegemen.

HADEOLOGIC INFORMATION

PHYSICAL SETTING SOURCE RECORDS SEARCHED



EDR Site ReportTM

SAN GERMAN, PR 00683 RD 107 KM 33.2 PR INDUSTRIAL DEVELOPMENT CO

March 21, 2003

Inquiry Number:

Data Risk Management For Environmental The Source

Southport, Connecticut 06490 3530 Post Road

Nationwide Customer Service

www.edrnet.com Internet: 1-800-231-6802 Fax: Telephone: 1-800-352-0050

TABLE OF CONTENTS

The EDR-Site ReportTM is a comprehensive presentation of government filings on a facility identified in a search of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections:

SƏS	Name, source, update dates, contact phone number and description of each of the database searched for this report.
9 ags 9	Section 3: Databases Searched and Update Information
	All available detailed information from databases where sites are identified.
∍թթգ	Section 2: Facility Detail Reports
	Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.
£ əgsq ∵.	Section 1: Facility Summary Section 1: Facility Summary

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

Disclaimer Copyright and Trademark Notice

This report contains information obtained from a variety of public and other sources. NO WARRANTY EXPRESSED OR IMPLIED, ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NECLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY DAMAGES. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL EDR BE LIABLE TO DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FINBLE TO DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FINBLE TO DISCLAIMS THE MAKING OF ANY SPECIFICALLY SPECIFICALLY OR EXEMPLARY BAMAGES.

Entire contents copyright 2001 by Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and the edr logos are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

SECTION 1: FACILITY SUMMARY

	<u></u>
5	TOTAL (YES)
ON	POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP
ON	Facility is fisted in a county/local unique database (LOCAL)
λE∂·b₂	-acility is listed in EPA's index system (FINDS)
ON	Scility has inspections under FtRA, TSCA (FTTS)
ON	secility manufactures or imports toxic chemicals of TSCA)
ON	Facility produces pesticides and has notified EPA Inder Section 7 of FIFRA (SSTS)
ON	NULTIMEDIA scility uses toxic chemicals and has notified EPA inder SARA Title III, Section 313 (TRIS)
ON	ecility has disposed of solid waste on-site (SWF/LF)
ON	Recility is listed as a state hazardous waste site (SWWS)
ON	ecility has a reported Superfund Lien on it (LIENS)
ON	acility has a known or suspect abandoned, inactive or noontrolled hazardous waste site (CERCLIS)
ON	AASTE DISPOSAL Facility is a Superfund Site (NPL)
ON	striebioni laitetiam audonas hat (BMIRS) o DOT (HMIRS)
ON	ecility has reported emergency releases to the soil (ERNS)
ON	ank incidents (LUST)
ON	acility manages registered underground storage anks (USJ)
ON	acility manages registered aboveground storage anks (ASA)
ON	ecility uses radioactive materials (MLTS)
ON	scility handles PCBs (PADS)
ON	Recility has been subject to corrective actions (CORRACTS)
ON	ecility has been subject to RCRA administrative cotions
ON	scility has received Notices of Violations (RCRIS/VIOL)
ON	-acility treats, stores, or disposes of hazardous waste nasite (RCRIS/TSDF)
YES - p4	NASTE MANAGEMENT scility generates hazardous waste (RCRIS)
EPA #PPR NOW	FACILITY AREA

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility generates hazardous waste

DATABASE: Resource Conservation and Recovery Information System (RCRIS)

EDR ID #1004778977 SAN GERMAN, PR 00683 RD 102 KM 33.2 PR INDUSTRIAL DEVELOPMENT CO

RD 102 KM 33.2 PR INDUSTRIAL DEVELOPMENT CO Facility Name:

SAN GERMAN, PR 00683

PO BOX 362350 Mailing Address:

350 JAN 1940, PR 00936 - 2350

PO BOX 362350 SAN JUAN, PR 00936 - 2350 IGDALIE RODRIGUEZ, SUPERVISOR Contact:

2131-427 (787)

PRR000007591 :GI-A93

Not reported Rank Status: Not reported Rank Date:

Conditionally Exempt Small Quantity Generator Classification:

Handler: Description:

kg or less of hazardous waste at any time; or - generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000

- generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates

- 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous - 1 kg or less of acutely hazardous waste; or

iron the desirip of a spin, into or on any land or water, or society hazarous waste; or each first of each of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or 100 kg or less of acutely hazardous waste; or 100 kg or less of acutely hazardous waste; or then deprise cleanup of a spill, into or on any land or waster, of acutely hazardous waste.

Legal Status: Private

PR INDUSTRIAL DEVELOPMENT CO PO BOX 362350 SAN JUAN, PR 78775 - 4161 (787) 754-1615 :JanwO

Ponntt Pronsed for / March 21 2002 Banath A of 10

SECTION 2: FACILITY DETAIL REPORTS

...beunifnoO...

MULTIMEDIA

:OI-A93

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

EDK ID #1004778977 SAN GERMAN, PR 00683 PR INDUSTRIAL DEVELOPMENT CO

records formerly associated with the site. databases included elsewhere in the report. Please note: the FINDS database may also contain references to out of date This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government

110007820563

Facility Registry System (FRS) EPA Records Indicate Facility Is Listed In:

110007820563

Not reported 2PN CEKWPN, PR 00683 RD 102 KM 33.2 Facility Name: Facility Address: PR INDUSTRIAL DEVELOPMENT CO System ID:

200112141964 Date Reported to Government: Not reported Sic Code(s): DUNS Number: US Fed Gov Facility: Indian Tribal Land:

110007820563 EPA-ID:

Resource Conservation and Recovery Act Information system (RCRAINFO) EPA Records Indicate Facility Is Listed In:

Not reported

System ID: PRR000007591

SAN GERMAN, PR 00683 Facility Name: Facility Address: RD 102 KM 33.2 PR INDUSTRIAL DEVELOPMENT CO

US Fed Gov Facility: Indian Tribal Land: Sio Codo(o): ON ON Not reported DUNS Number:

200112141954 Date Reported to Government: Not reported Sic Code(s):

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

WASTE MANAGEMENT

RCRIS: Resource Conservation and Recovery Information System Source: EPA/NTIS

Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Last EDR Contact: 03/07/2003 Date of Next Scheduled Update: 03/24/2003

Date of Government Version: 09/09/2002 Database Release Frequency: Varies

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity
Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Last EDR Contact: 03/17/2003
Date of Next Scheduled Update: 06/16/2003

Date of Government Version: 12/31/1999 Database Release Frequency: Biennially

RAATS: RCRA Administrative Action Tracking System Source: EPA Telephone; 202-564-4104

slephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Last EDR Contact: 03/10/2003

Date of Next Scheduled Update: 06/09/2003

Date of Government Version: 04/17/1995

Database Release Frequency: No Update Planned

CORRACTS: Corrective Action Report Source: EPA Telephone: 800-424-9346 CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Last EDR Contact: 03/10/2003 Date of Next Scheduled Update: 06/09/2003

Date of Covernment Version: 01/15/2003

PADS: PCB Activity Database System Source: EPA

Telephone: 202-564-3887 PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Last EDR Contact: 02/10/2003 Date of Next Scheduled Update: 05/12/2003

Date of Government Version: 12/12/2002 Database Release Frequency: Annually

MLTS: Material Licensing Tracking System
Source: Muclear Regulatory Commission and contains a list of approximately 8,100
MLTS is maintained by the Muclear Regulatory Commission and contains a list of approximately 8,100

Date of Next Scheduled Update: 04/07/2003

Date of Government Version: 01/16/2003 Database Release Frequency: Quarterly

...beunifnoJ...

РВ UST: Underground Storage Tank Facilities Source: Environmental Quality Board Telephone: 787-767-8056

Date of Government Version: 03/01/2002
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/26/2003 Date of Next Scheduled Update: 05/26/2003

Source: Environmental Quality Board Source: Leaking Underground Storage Tanks

Telephone: 787-767-8056 Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Next Scheduled Update: 05/26/2003

Date of Government Version: 03/01/2002 Database Release Frequency: Semi-Annually

ERNS: Emergency Response Notification System.

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of

oil and hazardous substances.

Date of Last EDR Contact: 01/27/2003 Date of Next Scheduled Update: 04/28/2003 Database Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported

Date of Last EDR Contact: 01/23/2003
Date of Next Scheduled Update: 04/21/2003

Database Release Frequency: 11/30/2002

Date of Government Version: 12/31/2001

WASTE DISPOSAL

to DOT.

NPL: National Priority List Source: EPA

Source: EPA
Telephone: Not reported
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Data Arrival at EDR: 02/04/2003 Elapsed ASTM Days: 28 Date of Last EDR Contact: 02/04/2003

Date of Government Version: 01/29/2003 Date Made Active at EDR: 03/04/2003 Database Release Frequency: Semi-Annually

PROPOSED NPL: Proposed National Priority List Sites Source: EPA
Telephone: Not reported

Date of Government Version: 01/29/2003 Date Made Active at EDR: 03/04/2003 Database Release Freduency: Semi-Annually

Date of Data Arrival at EDR: 02/04/2003 Elapsed ASTM Days: 28 Date of Last EDR Contact: 02/04/2003 DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: Not reported
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Data Arrival at EDR: 02/04/2003 Elapsed ASTM Days: 28 Date of Last EDR Contact: 02/04/2003

Date of Government Version: 01/29/2003 Date Made Active at EDR: 03/04/2003 Database Release Frequency: Quarterly

...beunifnoO...

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System Source: EPA

Source: ETM 473-0223
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the acreening and assessment phase for possible inclusion on the NPL.

Date of Data Arrival at EDR: 12/26/2002 Elapsed ASTM Days: 20 Date of Last EDR Contact: 12/26/2002 Date of Government Version: 12/13/2002 Date Made Active at EDR: 01/15/2003 Database Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been temoved from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was removed quickly without the need for the site to be placed on the NPL, or the found, contamination was removed quickly without the need for the site to be placed on the NPL, or the redevelopment or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unpan sites.

Date of Last EDR Contact: 12/26/2002
Date of Next Scheduled Update: 03/24/2003

Database Release Freduency: Quarterly

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Telephone: 205-564-4267
Compensation and Liability Act (CERCLA) of 1980, the USEPA by the Comprehensive Environmental Response, teal property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Data Arrival at EDR: 02/02/1994 Elapsed ASTM Days: 56 Date of Last EDR Contact: 02/27/2003 Date of Government Version: 10/15/1991 Date Made Active at EDR: 03/30/1994 Database Release Frequency: No Update Planned

PR SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list. Source: EPA
Telephone: 703-413-0223
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCL
These sites may not already be listed on the federal CEBCLIS list Bright eiter planned for

State Hazardars Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. State Hazardous Waste Sites. State hazardous waste site hazardous with sites planned for These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Last EDR Contact: 02/26/2003 Date of Next Scheduled Update: 05/26/2003

Date of Government Version: 07/12/2001

PR SWF/LF:

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System Source: EPA

Telephone: 202-260-1531
Tokic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Last EDR Contact: 12/26/2002

Date of Government Version: 12/31/2000 Database Release Frequency: Annually

...beunitnoO...

POTENTIAL SUPERFUND LIABILITY

PRP: Potentially Responsible Parties Source: EPA Telephone: 202-564-6064 A listing of verified Potentially Responsible Parties

Date of Last EDR Contact: 01/07/2003
Date of Next Scheduled Update: 04/07/2003

Database Release Frequency: Quarterly Patabase Release Frequency: Quarterly

TABLE OF CONTENTS

The EDR-Site Report!" is a comprehensive presentation of government filtings on a facility identified in a search of over 4 million government records from more than 600 federal, s(a) each from more than 500 federal, s(a) and local environmental dislabases. The report is divided into three sections:

Section 2: Facility Detail Reports Sage 4 Summary of facility filings including a review of the following areas, waste management, waste disposal, multi-media issues, and Superfund fability. Section 1: Facility Summary

Assistable detailed information from databases where sites are identified.

Name source, update dates contact phone number and description of each of the databases searched for this report. Section 3: Databases Searched and Update Information.....Page 5

Please confact EDH at 1-000-002 Thank you for your business.

Disclaimer Copyright and Trademark Motice

ENA and the ear tugos are nodements of Environments. Data Resources, Inc. or his advances. All other trademarks used horein are the oncount of their respective remens

Report# Prepared for / February 24, 2003 Page# 2 of 9

SECTION 2: FACILITY DETAIL REPORTS

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

MULTIMEDIA



EDR Site Reportin

SYN CEBNIYN' BB 00083 CYBIBE C'E' DIZT CONIDONENTS' IN

Inquiry Number:

Lebruary 24, 2003

Nationwide Customer Service 3530 Post Road Southport, Connecticut 06490

Risk Management For Environmental

The Source

Data

Internet: www.edrnet.com Telephone: 1-800-352-0050 Fax: 1-800-231-6802

SECTION 1: FACILITY SUMMARY

OTAL (YES)	
SOLITA SEE EN OL DOBULGIÁ, BEDO JESTS DRUGES DAN DO CIPERTILA.	UN
JADOJ seedslat suprin leochfrance an batel sight of	CN
(SQNI) wells's report 5,7dE u, pe,sit s Arios	YE3-P4
ADST ASSIST House under FIFRA TSCA VEPCRA (FTTS)	cv
scully manufactures or imposts toxic characels in the TSCA (et (*SCA)	CN
AGB betiture sert bne sebiodeed eeochorg vivios: (2722, AGRP to 7 notice2 tebr	CN
AULTIMEDA. sortify uses foxto chemicals and itas pouned EPA when SARA Title III, Section 213 (TRIS)	CN
⊡ УЗМS, жих ис ехеям энэс ји ракобор вац Анизе;	CN
(SWHZ) are alosw subbressir was a se batel at white	EN
(SNB)(), is no new Lind Supported in the contraction of the contractio	CN
iucouricijog promu o, arabect sparoking" uache ou scrift has a known o, arabect sparoking" uache ou	CN
AASTE DISPOSAL (HPL) as Superfund site (NPL)	DN
singt on assets: anobalist heboer set the os-	DN DN
POLITA IN ALL IN FRANCE I ANIBALIA PALADA SEL ANION	Q4i
egeitik tracigiebri i galisesi beragei sen yinde Arwindeber (TSU), tracidori was	CN
эсили паладея гэрийегод "лаверпоила экседе влез (UST)	c/s
agenots brumger ode bankager sagenam yilidas (TBA) bake	CN
(81.1%) a anetan endoaces seau girlos	- EN
(SCPVd) SSC = Septoner April 28;	CN
SCHOOL PRO SERVICE TO COLLECTIVE SCHOOLS COURSES	CN
evsetternimbe Attuff of Dajdue naed sea titt tob (ETAAR) enotion	CV
TO METHOR, supplied No section parameter Atmos	CN
Sound trade, spores or disposes of trazardous waste	CN
WASTE MANAGEMENT	CN
FACILITY AREA	ACLILITY Y ACHIBLE & DIST, COMPONENTS, IMC, ACHIBLE & DIST, COMPONENTS, IMC, ACHIBLE ACLICATION, DUCHACH ACHIBLE & BONDER, DESTANDARY OF THE COMPONENTS ACC THE COMPO

```
Dalabrae Release Frequency Sern-Annually
```

PR LUST, I asked julicylemust Sirvaya Tamie Josepo Sirvaya (1998) Doddy Doddy (1998) Doddy (199

Date of Next Scheduled Update 02/24/2003 Date of Government Version 1000 t/2002 Date Series Frequency Seria Annually

ENNS: Emergenty dependes obtained System 2014 Oberd to consider the construction of t

HMIRE: Heavised between belommaken decording System
WHIRE: Heavised between the increase of the period of the system HMIRE contains hazardous malenal spill increases (eported to the system of the system HMIRE contains hazardous malenal spill increases (eported to the system).

MASTE DISPOSAL Date of Last Edheduled Lpdate: 04/21/2003 Date of Constitution Version 07/31/2002 Database Release Frequency Annually

Osle of Date Arrival #EDR 11/04/2003 Elapsed 451M Cays 35 Date of Last EDR Contact 02/04/2003 Dale of Soverman Verson, 19/99/2002
Dale of Soverman of EDR; 12/99/2002
Dalebase Release Frequency: Sems-Annually elegorier Val et general (FPIC) and regional (FPIC) and revenue of the property of the propert

Date of Data Arrival at EDR: 11/04/2002 Elebred ASTM Days, 35 Date of Last EDR Contact, 02/04/2003 Dajapse Verenant Version: 10/24/2002 Date Wade Active at EDIS: 12/09/2002 PROPOSED WPL: Proposed National Priority List Sites Source EPA Teleprione Multeported

DELISTED MPL: Nahonal Pronty List Deletions Source EPA

Cale of Data Arrival at EDR 11:04:2003 Eispsed ASTM Cays, 35 Cale of Last EDR Contact 02:04:2003 Approve with the NFL where to further response is appropriate.

The Neboral OL and Hazardous Substances Pollution Centrigency Plan (NCP) catabisetics the original that PA uses to develope sites from the NFL in accordance with 10 CFR 200 4/25 (e); sites may be develope from the NFL where or of further response is appropriate.

Reports Prepared for / February 24, 2003 Pages 6 to 8

Date of Next Schedined | bdate: C4/28/2003 Date of Fast FDR (fourset: 01/2//2003

Date of Last EDR Contact 11/25/2002

...beunitno2... SECTION 3: DATABASES SEARCHED AND UPDATE DATES

us in 1874 year.

1. Use of special integrated by produced, and those hand been produced and sold or certificate and appropriate and appropria

έρουνα. (2.5.05.59.24) Took Substances Control Act. TSCA dentines manufacturers and invortees of chemical substances included on primaria (1.5.0.60). Substances Inventory (iii. I) indiduces dies on the production refunse of these substances or permitted. TSCA: Toxic Substances Control Ac Source EPA Date of Next Scheduled Update: 04/21/2003 Oate of Covermont Version, 12/3 f/2000 Oatsbase Release Prequency Aminutly

Date of Government Verson: 12:51/1996 Database Release Frequency NVA

FTIS tracks extinitivitive osests and postude and community rigitivity field into Action Action oursercy, to FFIAA, TO Action For Planning and Community rigitivity from Action Action Action Action oursercy. FTT3: FIFW. LOSA i restring System: FIFRA (Federal insections functione, a Rodemikide Activation Substances Control Activatione) and restriction and issue Substantial Restrictions and issue Substantial Restrictions and issue Substantial Restriction and Rode Restrictions and issue Substantial Restriction R

Date of Next Schednied Update: 03/24/2003 Date of Last EDR Contact: 12/26/2005

Montanison on Gui Machel (and Promett) Laske Bick and excessional death and administration of Machel (and Promett) C-10-10-10 (C-10-10) FINDS: Facility index System/Facility Identification Influstive Program Summary Report Source EPA

Pomes Manufactured dass (Coals Gas) altes. The session of coals assess as provinced actaclassing to ERDA Week Translational actaclassing to ERDA Week Property Science, CO. Coalson page 1899. Real Property Science, inc., Eor a sechnical description of the types of hazards which may be found at such sites, contact your EDR customer service representatives.

то пред на пр

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

to maintain currency of the following lederal, status and local natabases, £0.Pt contacts the appropriate government agency on a monthing or quantity basis as required.

elauner prinsbqu yeb-06 arti zbaecso to ateem togat zirt fisti natismitino sebvorg: 7:x4b MT&A basqst

WASTE MANAGEMENT

resource Conservation and Recovery Information System RCRIS includes selective Resource Conservation and Recovery Act, (RCRA), and presented, surreptor, surre, trest including depose of netakidous waste as defined by the Resource Conservation and Recovery Act, (RCRA).

Date of Next Scheduled | posts: 03/24,2003

Superior is secured to the second sec

Date of Last SOR Contact 12 (7)2002 Cate of Next Scheduled Update (3/17)2003

VS 44 - 30x; According to the Commission of System RAS IS convision received breased on enforcement actions assumed the Commission action of the deletions and choice and commission of the Commission of the Commission of the deletions and choice and ch

Date of Last FDR Contact: 12:09:2002 Date of Next Scheduled Update: C3:10/2003 Date of Government Version 09/29/2002 Database Release Frequency Sensi-Annually CORRACTS, Conceins Action Report Source EPA Technology 800-424 9346 CORRACIS demilles hazardous waste handers with RCRA connective scrion activity

E > + of Last EDR Confact, 02/13/7603 U > + of Next Scheduled Update: C5-12/2003 Database Release Frequency Annually where, 9025049881 set and/or brokers penerators, transporters, commercial storers and/or brokers PGB Acting Database a MoD side expensions, transporters, commercial storers and use of PCB a who are required to notify the EPA of such admittees PADS: PCB Activity Database System Source EPA

where Descriptions of the State of the Commence of the State of the St

Date of Soverment Version, 16/2 N2002 Database Rolesso Frequency, Quarterly Date of Last EDR Contact 01/09/2003 Date of Next Scheduled Update 04/07 2003

...beundno0... SECTION 3: DATABASES SEARCHED AND UPDATE DATES

Professor (VA-1702)

CERCLI Contains care on potentially hazardous waste sites than been reported to the USEPh by the distribution of the CARCLIS contains the reported comment of being the contained to the USEPh by the provise comment of response contained to the USEPh by CARCLIS CERCLIS contains the response comment of the professor of the professor contained to the CARCLIS contained to the professor of the professor contained to the contained

Cic 2 #eper CO05, 42 yearded 1 tot beneger 4 thodes

Date of Last EDR Contact. 12/10/2002 Date of Next Scheduled Update: 03/10/2003

Date of Data Amvar at EDR 12/26/2002 Elapsed ASTM Days 20 Date of Last EDR Contact 12/26/2002

CERCLIS Comprehensive Environmental Response, Compensation, and Labuity Information System Source EPA.

Date of Lest EDR Contact: 12/26/2002 Date of Next Scheduled Update 03/24/2003 Database Release Frequency: 02/13/2002 Oatabase Release Frequency: 0uarteny

To State of powerful teachers and provided the property of production of powerful teachers of powerful teachers and powerful teacher

Date of Date Armal at EDR 02-02/1994 Elapsed ASTM Days 56 Date of Last EDR Contact: 11/25/2002 Date Made Active at EDR: 03/30/1991 Date Made Active at EDR: 03/30/1994 Datobase Refease Frequency: Mo Undole 5

PRO STATE (See The State Godes not maintain a SHWS) lest See the Fedwal CERCIIS list (
Source C.P.)

The state of she build shall be surface wash alto excite are the state who the shall be controlled by the control and shall be surface which shall be controlled by the shall shall be controlled by the shall shall be controlled by the shall be c

Date of Last EDR Contact: 11;25:2002 Cate of Next Scheduled Update. 02;24;2003

H SWITE

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System Source EPA

phymore. 2022,505.153.1 Touc Gelease invariory System. TRIS -dentifies facilities which refease loxuc chemicals to the air. water and land in reportable quantibes under SARA Title III Section 313.

Database Release Frequency: Annually Date of Government Version: 12/31/2000 Date of Last EDR Contact: 12/26/2002 Date of Next Scheduled Update: 03:24:2003

Report# Prepared for: February 24, 2003 Page# 7 of 9

Date of Soverment Version, 01,08:2003 Database Referen Frequency, Quadretly eorins' oblastogeton yleutratog (AR) NG sonuce kido de sonuce kido d YTIJIBALJ GNURREGUR JAITNETON

Cale of Last EDR Contact: 01 0/12003 Date of Next Schedulich Linkste. 04:07:2003

Report# Prepared for / February 24, 2003 Paga# 9 of 9

TABLE OF CONTENTS

The ERS-Rise spectral is a comprehensive to accentation of government limits on a backly dentified in a search of ower 4 million government records from more than 600 federal, stalls and local environmental distances. The report is divided into these sections

ballitnebi ene satie eneme asedeseb mont notiermotni beliese bidelieve. ItA

Section 2: Facility Detail Reports Page 4 Summary of facility fillings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superhind liability. Section 1: Facility Summary.

Name, source, update dates contact phone number and description of each of the databases searched for this report. Section 3: Databases Searched and Update Information...

Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

Copyright and Trademark Motice

And the entitle of the ord to the contract of Environmental bala bala balances, and self-adiabative transporters used from the first first of the contractive owners.

Report Frepared for February 24, 2003 Fage# 2 of 9

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility manages registered underground storage tanks

DATABASE: Petroleum Storage Tank Database (USI)

Data Resources, Inc. letnemnorivn3 : " EDR Site Reportin

Data Risk Management For Environmental The Source

Inquiry Number:

87/1 CEB/HY/1 BB 983 87/2 CEB/HY/1 33/9 87/2 CEB/HY/1 8/8 4921

February 24, 2003

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Internet: www.edrnet.com Telephone: 1-800-352-0050 Fax: 1-800-352-0050

SECTION 1: FACILITY SUMMARY

TOTAL (YES)	
YTTABAL SUPERFUND LIBBALITY PERTAL SUPERFUND LIB	CN CN
Teachity is taked in a countyhocal unique sursease DCAL	CN
(\$9N/3) mere, a xeon a Aq1 in be, et ay mea	CN
ADEL ARRIGION under FIRA TSCA MEDCAR (FTTS)	CM
Facility manufactures or importations concilerated (TSCA)	CN CN
ARE behior and bin abolitized subdot giftle. (2122) APRINT 10 You behind the Carlo Sabria.	CN
MULTIMEDUA Faculty uses toxic phemicals and rest noticed EPA Index SARA Title it Section 313 (TRIS)	ſN
(4) AVE, six-no sizew bloc to bosopale ear viting?	cw CN
(EWHZ, the many suchters were as betall anythous	CN
Faculty has a reported Superfund Len or it L'EVS.	CN
Fachly has a known or ausu-it aparticited in remit in the proportion of australia (CERCLIS)	CM
TAROGEIC STEWN	EN
sination layeren auchtesed behoper sen villipsa (SB AM) TCC o	CN
Facility has reported pringency reacted to the SAI ERYS	CN
muk Loidena (FCST) Escrift has reported teaking uncerground storage	CN
Faculty manages registered underground storace	YE8-p4
egetols Enumpavade bareagas agenem viltobri (TEA) exitin	ČN
edility uses redicactive materials (All, S)	CN
(SOA9) 883% 880% 84 yr loss	(CA
Facetly has been subject to correct we actions (CUPRACTS).	CN
evacriterembs AHOR of coepur need saft yhise (21 AAR) anolise	EN
Fechity has received Notices of Vicintions (BCRISIV CL)	ON
Facility (*east, stores, or discoses of hazarous was en on-sale (*GRIS/ISOF)	CN
maste management Figura valens hazsiques masia BCBIS.	ON .
FACILITY	FEORLITY FANCISTY SEST SAN DESMAN SEST SAN D

Cate of Lest EDR Confact, 11/25/2002 Cate of Next Scheduled Update, 02/24/2003 Database Release Frequency Servi-Annually

PR LUES / Lower Development States and Expendence of States and Telegraphic States (1995 - 1994) Seed States (1995 - 1995

Dalabase Release Frequency: Semi Annually

ERNS: Emergency desponses bullstrainen System
Teleponen 20-200-2388
Teleponen 20-200-238

Date of thest Scheduled Update: 04/28/2003

Cale of Next Schedined Codate: C4/21/2003 Cale of Fast EDB Confact 01/23/2003 Date of Severament Version 07/3 t/2002 Database Refease Frequency, Annually

Date of Data Armval at EDR 11/04/2003 Elepsed AS I M Days, 35 Date of Last EDR Confact, 02/04/2003

Date of basilithms at EDR 11/04/2003 Elepsed AST M Days 35 Date of basil EDR Contact 02/04/2003

propriet Authorist (SLP) (1975) and the propriet of the proprece of the propriet of the propriet of the propriet of the propri

Date of Data Armail at EDR 11704/2003 Elapsed ASTM Cays: 35 Date of Last EDR Collact 02:04/2003

Report Prepared for February 24, 2003 Page# 5 of 9

___confined_... SECTION 3: DATABASES SEARCHED AND UPDATE DATES

215. Selected, 1 (dector 5) stems 2. Selected 1 (dector 5) stems 2. Selected 1 (dector 5) stems 2. Selected 2 (dector 5) stems 2. Selected 2 (dector 5) stems 2. Selected 3 (dector 5) stems 2 (dector 5

Dalabiee Release Frequency Aurusily Dalabiee Release Frequency Aurusily Date of Vast EDR Contact: 04/21/2003

156A: fore Sustainness Contest Act
on the 150A Chemical substaines of the sustainess of the sustainess substaines
on the 150A Chemical Substainess Contest Act
on the 150A Chemical Substainess Substaines
on the 150A Chemical Substaines Substaines
on the 150A Chemical Substaines of the substainess of the substaines of the substaines of the substaines of the substaines of the substainess of the substaines

Date of Dovernment Version: 12/31/1996 Oatabase Release Frequency: NVA

FTFS tracks adminished sease and positiode ordercomonal address and compliance adminish the tracks of the PLFA, 120.6 and EPCRA, (ficting and Periode order and entropy on a quarterly brase.

FTTS NASP, FTRANSOA Tracking System - PIFRA, (feateral breachode, fangecide, & Rockemoule Act)/TSCA (Touc Substances Control rest)
Temporore, 2023-64 2501
Temporore, 2023-64 2501

Date of Next Scheduled Lipdate 03/24/2003

For expression of promote by the property of t

Permay advantatived des (Loba) (1961): The additions and observed Loba Steps service steers to provided evidence of the CPA Post (1961) (1961) (1961) (1962) (1963) (1964)

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

c amenium currency of the following fedoral: state and local catabases; EUH contants the appropriate dovernments appropriate promitive of a microfish or quantity basis as required.

WASTE MANAGEMENT

ones of the state of the state

Dale of Government Version, 19909/2002 Dalebase Release Frequency, Vanes Cate of Last EDR Contact. 12/26/2003 Cate of Next Scheduled Update. C3/24/2003

BES: Elevinial propriets of securing securing Scales and securing Scales of Scales Scales of Scales Scales of Scales Scales of Scales of

Date of Next Scheduled Update C3/17/2003 Data of Soverment Version: 12/31/1999 Database Release Frequency Riemnally

Date of Next Scheduled Update: 03/10/2003

CORRACTS, Concebus Action Report Source EPA Tolephone 800 424 9346 Tolephone 800 424 9346 Tolephone 800 424 9346 Tolephone Report Reports National Part Reports Report Reports Reports Report Reports Reports

PATRS: COSE Activity Unabose System PATRS: COSE, COSE Date of Next Scheduled Update 63/10/2003

Date of Next Schednica Chasts, C4/07/2003 Date of that EDS Contact, 04/08/3003 with 2. Whitemson the raid a snatron brin massaring by south derived index of provided index of proceedings of proceedings of proceedings of the raid of purposes of the raid of processes of the raid of th

6 to 2 #eged COOS .45 yreurded 1 tot beneded #hodeA

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

…beuninnoວ...

Inducation of COSE (COSE) (COS

Date of Vext Scheduled Update 53:24:2003

Date of Data Arrival at EDRI 02:02 1994 Elepsed ASTM Days 56 Date of Last EDR Contact 11/25/2002 Types of boseus a papier. (PSEA countries a jastic of lase under section of countries and countries and countries and countries and countries of cou

STIMES. The paste does not makinain as PHMS list. See the Fockack CERCLIS list.

18.04.55 EVA.

4.04.50 EVA.

4.04.50 EVA.

5.04.50 EVA.

5.04

PR SWF/LF:

AIGEMITJUM

Date of Lest EDR Contact. 12/26/2002 Date of Next Scheduled Update 03/24/2003

SECTION 3: DATABASES SEARCHED AND UPDATE DATES .: Continued...

Date of Convergent Version 11(18/2003 Database Release Frequency Cuadraty POTENTIAL SUPERFUND LIABILITY
Source 15 Nd Source 15 Nd Source 25 Nd S

Report Prepared for February 24, 2003 Page# 9 of 9

Cate of Last EDR Contact | 01 07 2003 Cate of Mext Schedulet I private | C4:07 2003

Section 1: Facility Summary..... Page 3

: Data : Resources, Inc. Environmental ...

EDR Site Reportin

SAN GERMAN, PR 00683 RD 102 KM 33.6 TEXACO PR INC SAN GERMAN SS

inquiry Number:

(RES) JATOT

Escrità is yaled in a constituccal nuidria casabase (COCAE) (SQINIT) metry's xebrus ARL in beteil at yill me?

ADST APRIF retains a negacity test 15CA socially best (ETT3) ASCRETE to Facely manufactures or imports took chamicals on the TSCA list (TSCA)

A 42 before and based seaton of the PA (STZS: ARARI to V order Section 1)

A'th betton set one alcoment axid seek visions (\$187) £15 notices (II sett ARAS tebru (2VAL), is no ne Ji krishaque banoges a eaf tilnos? (2VAP), elle sizaw automisser afeir a er baint si tilnos? (2 VAP), www. nerew nater to become san tilloss.

nucountyjed uszaidona ważie a le ("JEBOCIIA") Łacijyk paa a kuowu o, anabaci opaudoued, in Jech-a d,

Fachly has reported hazardous material richer's (26 AM) TCO or

Fact by manages registers to to derignound storage familia (UST) (21.M.) a endem evideorbar easu yir ide3 egenote bruorgevide beralagar eagenem yir ide3 (TEA) izmel

Evelopments AROS of toolder need setting tool (STAAR) enotice

Family thesis super, ord sposes of headlings westernon-site (RCRIS/TIGE) WASTE MANAGEMENT Family ger realize transformatic (RCP.5)

Facerity handles PCBs (PADS)

(SNEE), for all o sessels, Kolabia, a deloce sell friend Fackly has reported tealing underground storage

24-23Y

CN

CN

CN

CN

CN

internet:

SECTION 1: FACILITY SUMMARY

February 24, 2003

Data Risk Management For Environmental

The Source

Southport, Connecticut 06490 3530 Post Road

Nationwide Customer Service

www.edrnet.com

Telephone: 1-800-352-0050 Telephone: 1-800-352-0050

Report# Prepared for / February 24, 2003 Page# 3 of 10

WASTE MANAGEMENT

Facility generates hazardous waste

1005E BETANCOURT, EHS MANAGER SAN JUAN, PR 00902 - 4160 105 (783) 783-6110

BOURN APPORT

TEXACO PRINCISAN GERNAN 3S RD 102 KM 33 5 SAU GERMAN, PR 30683

PKR000010298

EDK D RING SAN GERMAN SS SAN GERMAN, PR 00663 TEXA D R10041° 9039

DATABASE: Resource Conservation and Recovery Information System (RCRIS)

renteta legal

Describson. Classification

Rank Date Rank Status.

:OHYd3

Confact:

SECTION 2: FACILITY DETAIL REPORTS

Report# Prepared for / February 24, 2003 Page# 2 of 10

EDR and die ech logos are undermarks of Environmental Data Resources, finc, or its affiliates. All other trademarks used therein are the property of their respective owners.

Thank you for your business Please contect EDR at 1-800-352-0050 with any questions or comments

All avaitable detailed information from databases where sizes are identified. Section 2: Facility Detail Reports Summary of facility filings including a review of the following areas' waste management. waste disposal, multi-media issues, and Superfund liability.

PLE EDE Stille Report, is a countries and still the second from more than 600 featual, stalle and local environmental as search of over a maintein government and over the search of over a maintein second from more than 600 featual, stalle and local environmental and second some more than 500 features and second some second of the second second

Name, source, update dates contact phone number and description of each of the databases searched for this report.

Section 3: Databases Searched and Update Information....Page 6

FORS 25 DYTHOSE INCTIONNOT MULHORI TRAUVULANT RECORF INCIDENTLYF CONRECTIONALINF OF EXEMBLYSLA DYWYCES
VAKANE MAELHEN WRIGHOOD ON DE EMBOURS ON KNEIKONE FESTICENCE FOODER I OB YNA, OLIEG OWTEE FOUR BUX
VAKANE WRIGHTIN WIS ELE UN BROWLES IN WIS RELEAFT EDUR BETHE ELE OFFICE WHILE TO BE AND THE TRAUTE OF ULLIAR SECTION OF UNIVERSITY OF ULLIAR SECTION OF UNIVERSITY OF UNIVERSE OFFICE OF UNIVERSE OFFICE OF UNIVERSE OFFICE OF UNIVERSE OFFICE OFF Disclaimer Copyright and Trademark Notice





































































































































































































ot drautedy pass as vedicined.

10 mainten crimency of the following feneral, state and local databases. EDR controls the appropriate government agency on a monthly

. Recommend of the Recommendation of the Recommendation of the Resource Process of the Resource Conservation and Recommendation and Recommendation of the Resource Process of Instructors where as defined by the Resource

emenupes grafisbati, ysp-06 off sbesoxe to steem hopes and tods national satisfacts selvivorg. Properties et al

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

.OI-A-13

ine mine de festal un the festal in Mis expense. The FINDS database may also contain reterences to record from the finds and the finds database motivated database motivates of the finds database motivated database motivates of the finds and the finds database motivates of the finds of the finds of the finds database motivates of the finds of

110007821697

Not reported Not reported Not reported Not reported DUAS Number: US Fed Car Facility Indan Intal Land: Sic Code(s) Date Reported to Government 110007821697 1EXACO PR INC SAN GERMAN \$S RD 102 KM 33.6 SAN GERMAN PR 00683 MIN MOORED Facility Registry System (FRS) ENV Mecouca judicate Eacility is Listed in

Resource Conservation and Recovery Act Information system (RCRANG) 110091851981

Report# Frepared for / February 24, 2003 Paga# 5 of 10

...beunilno0... SECTION 3: DATABASES SEARCHED AND UPDATE DATES

maney Centrol (Instruct) Life. Missing Management of Centrol (Instruct) Life. Missing Management (Instruction Constitution Constitution

From the Control of State of System (System) (Sy

akphono. 9004/94/9046 SOGASA identifies hazardicus waste handlers with RCRA conectave action activity.

Oate of Government Version 09/20/2007 Database Release Frequency Annually

Date of Government Version 39/29/2002 Database Refease Frequency Semi-Annually

RAFIS: RCRA Administrative Action Tracking System Source

WASTE MANAGEMENT

Date of Data Amvail at EDR 12/26/2002 Elaberd ASTM Cays 20 Elaberd Last EDR Contact, 12/26/2002

Date of Lest EOR Contact: 12/26/2002 Date of Next Scheduled Update: 03/24/2003 Data of Government Version: 12/13/2002 Database Release Filliquercy: Quarterly

SHWS. The table does not mainten a SHWS liet. See the Feorest CERCLIS list Secure TPA.

Telephone "Delicities and secure the secure to the se Date of Last EDR Contact: 11/26/2002 Elepsed ASTM Cays 56 02/02/1994

Date of Last EDR Contact: 11/25/2002 Cate of Next Scheduled Update: 02/24/2003

AUI TIMEDIA HTHMS NA

TRIS: Toxic Chemical Release Inventory System Source EPA

eprone. 202260-1510 Tobos Release inventory System 1815 dentifies lactices when release tour chemicals to the air water and land in reportable quantifies under SARA Title ill Soston 313

Date of Last EDR Contact. 12;26/2002 Date of Next Scheduled Update. C3/24,2003 Database Release Frequency Amrually

Date of Last EDR Contact, 01/23/2003 Cate of Next Scheduled Update: 04/21/2003

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

Cate of Last EOR Contact 11/25/2002 Date of Next Scheduled Update: 02/24/2003 Database Release Fredheucy: Semi-Amunally Date of Government Version: 03/01/2002 PR UST: Underground Storage Lank Facinies Source Environmental Quality Board Talophono 787-767-8056

teaming Univerginal Selvage 1 set inches those 12.0 i. Shopes I selve the Selvage bruckens on unversion of nepondo learning the construction of the control of the selve maintain makes records, and the whomes of the selve of t

Date of Lest FDR Confect: 11/2/2003 Cate of Next Scheduled Update 02/24/2003

Osispese Release Fredheucy: Amnelly Osis of Government Version, 12/31/2001 PR943. Exemplated because Authority to the States Created Search Search

JASOSKI STEAW

Date of Data Arrival at EDR, 11/04/2002 Elapsed ASTM Cays: 35 Date of Last EDR Contact: 02/04/2003

Not reporded.

Not reporded when the VER 2004 (NCP) setablishes the smitnes and visited and Headstanders Substances Pollution Condinguing Pd. 16 CFR 300 425 (e), sites may 2. A uses to geteral state from the MPL, in secondance with 16 CFR 300 425 (e), sites may direct the VPL where no further response is appropriate.

Cate of Data Arrival at EDR, 11,04/2002 See ASTM Test Days 35 Eate of Last EDR Contact: 02/04/2003

Report Prepared for / February 24, 2003 Page# 3 of 10

Report# Prepared for: February 24, 2003 Page# 5 of 10

Date of Lest Schoduled Update 04-07 2003 Date of Wext Schoduled Update 04-07 2003

Date of Last EDR Contact 02/10/2003 Date of Next Scheduled Epdate C5/12/2003

Date of Last EDR Confact. 12:09/2002 Date of Next Scheduled Update. 03/10:2003

Date of Last EDR Contact, 12/10/2002 Date of Next Scheduled Update, 03/10/2003

Date of Last EDR Contact, 12/17/2002 Date of Next Scheduled Update, 03/17/2003

Date of Next Schediffed Obdate. 00/24/2003 Date of Last EDB Conlact. 15/26/2005

Report# Prepared for I February 24, 2003 Page# 7 of 10

Date of Government Version 101/08/2005 Database Release Frequency - Ouarterly sets 9 ablishopp Rylletineto 9A9 2cm 2Ch 463 ensisted (468-464) 8-min 94 sets of the sets

Date of Next Scheduled II pdate 104/07/2003

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

beunijno0..

Date of Leat EOR Contact: 01/21/2003 Date of Next Scheduled Update: 04/21/2003

TSCA: Towe Substances Control Act includes the analysis and importers of chemical substances included forces customers. Site 250:260:502.

Increase 250:260:262.

Increase 250:260.

Increase 250:260

Dale of Next Schednled Update: 03/10/2003 Date of Last EDR Contact, 12/10/2002

FTES TERM LEGA CHANGES SHARM—FERM, delakal biseascides Emgalde, & Robenhade Activ15-CA (Touc Substances Control Activ Sucres "Exhibition or pre-baseding and force Substances" in the Carter Substances and Substances and Substances and Substances or Substances and Substances and Substances or Substances and Substances or Sub

FTTG NURSP, FIFEAX 12CA Transling System - FIFRA (Federal Insections's Pungcole, & Robertonide ActivTSCA (Tous Substances Contro' Act)
Teleprones. 2023-564-2501

Date of Lest EOR Contact: 12/26/2002

The state of the s

Defendant of the control temps for use some support of the control temps and the control temps and the control temps for use some support of the control temps for use some support of the control temps and temps for use support of the control temps for use support of the

Record Prepared for February 24, 2003 Pagest 10 of 10

Report# Prepared for I February 24, 2003 Page# 9 of 10

TABLE OF CONTENTS

ha EDR State petern", a septembera in the research of government limits on a facility dentitied in a search of over 4 million government records from more than 600 federal. Isle and toosi environmental diseases. The retroit is divided into three sections.

	beitinebli ere selle ereilled information from databases where sites are identified.
aged	ction 2: Facility Detail Reports
	Summary of facility filings including a raview of the following areas: waste management.
t ages .	criou 1: Escility Summary

Thank you for your business. Piease contact EDR at 1-800-352-0050 with any questions or comments

Name, source, update dates, contact phone number and description of each of the Japabases searched for this report.

Section 3: Databases Searched and Update Information.

CHARGORIST COMPACTION OF THE CONTRIBUTION OF THE COMPACT OF THE CONTRIBUTION OF THE CO

EOR and the edviogos are indemars of Enviorinmental Data Resources, Inc. or ats affineles. At other becomen's used 'invain arm the property of their respective owners.

Report# Prepared for February 24, 2003 Page# 2 x 9

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility manages registered underground storage lanks

DATABASE: Petroleum Storage Tank Database (UST)

Data Bata Resources, Inc.

EDR Site Reportem

RALLACE INTERNATIONAL OF PR INC WALLACE INTERNATIONAL OF PR INC WALLACE INTERNATIONAL OF PR INC

Inquiry Number:

February 24, 2003

3530 Post Road Southport, Connecticut 06490 Data

Risk Management For Environmental

The Source

Nationwide Customer Service

Telephone: 1-800-231-6802 Fax: 1-800-231-6802 Internet: www.edrnet.com

SECTION 1: FACILITY SUMMARY

(YES)	9
OTENTRL SUPERFUND LIBELITY	ON
JADC I seadclet eupinic lebutyth on 6 n bereit at yhtige	CN
(20142) matery a votor a 'AGE in betty at white	CN
ADST JARAFIT syndrone und re FIFRA, TSCA FPCRA (FTTS)	CN
achity manufactures or importa toxic of envisats in the TSCA let ("SCA)	CN
AGE heliton zert brit zebrorreed zeol. borg yfilios: (27,88, AGRIR to 7 noboeč nebri	CN
AG3 behinds as an assemble and uses years AG3 behinds as an assemble as a fall as an assemble as a fall as	CN
(P.NRW2) six-no elises pilos lo bosogeb asit (filos)	CN
(SWHZ) elle elsew euchtesen elete e se beteil si glinbe	CN
(21/31.1) in noise i bruthequé behoge a seri yti ros	CN
ucoutojied pasardona wasa ajie (CERCTI2) scijik pas a kuowu o, arabect apaudoked ruecijika o.	CN
JASORBO SAN JAM and Supportant See MPN	ĆN .
amedican lenelari, auobiașed behodei aed ylinos (28 Met) T.C.C.d.	ĊN
(S) RE, los ett a seserer yonggener behaves est yli ios	CN
абыо): рипоÆюрип Биркей рафова, увручите зараба	C/
epinota brumphabru, carataper eaparam virios (TZU) exina	7E3 - p4
aperots brumperods bareteres segaram yhiba (TBA) sina	CN
scirty uses radioactive materials (MLTS)	CN
SOLAR BEDG selbrar ykitos	CN
(\$10ARFCO: and/de eviceshop of toward need sen yinds	CN
chore (RAATS)	CN
achity has received horices of Victorions (PCRISAV OL)	SN
activy "eath, stories, or disposes of nezamous washe clear (ADRIS/150P)	CN
TNEMBORANA STRAY	CN
PAGILITY A3R1	PACILITY FACTOR AND THE CONTROL OF PRINC MALE LACE INTERNATIONAL OF PRINC SAFETY AND PRINCIPLE OF PRINCIPLE O

Dajapase Bejesse Fredheucy, Serur-Armasty Daja of Soretument Aerston 03/01/50/05 Cate of Yest Schednied Update: C2/24/2003

Date of Next Scheduled Update: C2/24/2003 Date of Soverment Version, 03/01/2007 Database Release Frequency, Semi-Annually

man of an expedition of second and the contract of the contrac

Date of Government Version: 12/31/2001 Database Refease Frequency, Avnually Cate of Next Sched lied Update Co.28,2003

Cale of Last Spredited Update: 04/21 2003. Database Refease Frequency Annually

Date of Dass Anivas at EDR 11/04/2002 Elapsed ASI M 1349s; 35 Date of Last EDR Contact 02/04/2003 species — Soli cycle (Supplied Degrad Medical Supplied Su

Date of Government Version 10/24/2002 Date Made Active at ED9 12/35/2002 Datebase Release Frequency Semi-Aminalty Cale of Last EDR Contact 02:04:2003 Etapaed ASTA Days 35 Cale of Last EDR 11:04:2003

DELISTED MPL: Mational Priority Lat Defetions
Source EPA

Date of Data Graval at EDR 114C1/2002 Etapsed ASTM Days; 35 Date of Last EDR Contact C214/2007

Report# Prepared for J. February 24, 2003 Page# 5 of 9

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

"penuljuon"

the bask seek. The provided the provided and the provided seek provided the provided seek provided the provided seek provided and the provided seek provided provided seek

Date of Lest Beheduled Optale 04/21/2003 Date of Next Scheduled Optale 04/21/2003

COS 2025 The production of the production of the production of the production of these substitutions of these substitutions of these substitutions of these substitutions of the production returned to the production of these substitutions of the production returned to the production returned to the production of the p

FFTS, FEW LISCA, Taudrag Schem. FIFBA, Federal navoscice. Eurgotion, 8 Rodensciere ActivISCA (Toxic Substances Control Source = EAN, Vibos of Harmanian, Peatendes and foxe Substances ** Reprices 2025-250. Date of Government Version: 12/31/1998 Database Release Frequency: IVA

Date of Next Scheduled Addate C3/24/2003 The State administration costs of a quarterly basis. The Community Highli-to-Know Act, To insurain curency, PFRA, Edgency on a quarterly basis.

PTS (1895). FEREAL STOAT A TREAT OF THE AA (Federal Insectable: Fundorde, & Routenfolde Activition Substitutes Conition Activition (1895). FEREAL STOAT STOA

Dajapase gelesse Fredheucy. Quartedy Dajapase Release Fredheucy. Quartedy Date of Next Scheduled Cydate 03/24/2003

increased, section of contains both health increased and content to contain the content of the c

chemit Manuture des Qui Manuture des Services de Constitute de Services de Constitute des Constitutes de Services de Constitute des Constitutes de Constitute des Constitutes de Constitut Database Release Frequency: Quarterly Date of Last EDR Contact: 01 06/2003 Date of Next Scheduled Update: C4:07/2003

Disclaimer Provided by Real Property Scan, Inc.

The imburation contained in this report has pre-lominarity boon obtained from publicly available sources produced by critical and office and of

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

i or manish deurends of the bellowing federal, statie and oceil stabbases. EDM confacts the appropriate appropriate incrmity or a morning

Elapsed MT&A bays: Proverse viewell and instruction that this report meets or exceeds the 90-usy updating requ

THEMSOANAM STEAW

Resoucce Corservation and Recovery Holomolion System RCRIS includes selective information on suce Anot generate, parieting to the best and/or dispose of instandous waste as dehind by the Resource Trimestration and Recovery Art (PCRA). RCRIS. Resource Conservation and Recovery Information System 5 outce ECANTIS. Talephone 800-124-93-46 Technone 800-124-93-46 Technone 800-124-93-46 Technology System: RCF

Database Release Frequency Vanes

Database Release Frequency Vanes Date of Next Scheduled Update 13/24/2003

mented, promosed larraneal, 2588 211,WA31_groups 210,MA31_groups 210,MA

Date of Next Schediffed Up hate: 03/17/2003 Date of Last EDR Confact: 12/17/2003

maisy 2 gorkos Trecking Aystem ARIS: RCKing System ARIS: Rocking System

Date of Next Scheduled Update: 03:10:2003

Date of Gorerment Version: 09/29/2002 Datebase Refease Frequency Semi-Annually Date of Last EOR Contact: 12:09:2002 Date of Next Scheduled Updale: 03/10/2003 abco 424 004 and one has been benefied in the KPG on each on a color and the section and the s

more Q escolately denses, EGP = 20AP and QP = QP

Date of Next Scheduled Lydate C6/12/2003

Report# Prepared for / Fabruary 24 2003 Paga# 5 of 9

...beunijno0... SECTION 3: DATABASES SEARCHED AND UPDATE DATES

Date of Covernment Version: 12/13/2002 Date Made Adhe at EDR 01, 15/2003 Datahase Refease Frequency. Quarterly

CERCLIS-WERAP: CERCLIS No Further Remadial Action Planned

Date of Leat EDR Contect. 1226/2002 Database Release Frequency: Quarterly

PR \$HWS; This state does not maintain a SHWS list. See the Federal CERCLIS list Source. EPA Date of Lost EDR Contact. 11,25/2002 Cate of Lost EDR Contact. 11,25/2002

Date of Leaf EDR Contact: 11/25/2002 Date of Next Scheduled Update: 02/24/2003

Opiapasa yarasa Eudenack. No hitesa Baurea (Salayasa yarasa Eudenack. No hitesa (Salayasa yarasa)

PR SWF/LF:

Journal Co. 202, 200-1201 (included 202, 200-1201) (out Release) Inventory System TRIS denables boshes which release boxic chemicals to the ac, walke and land in reportable quantilles under SARA file III Section 313 (Date of Last EDR Contact TRIS: Toxic Chemical Release Inventory System Source EPA

Database Release Frequency Annually

Date of Last EDR Contact, 12/26/2002 Date of Next Scheduled Update, 63/24/2003

POTENTIAL SUPERFUND LIABILITY

Date of Constrained Version, 01/08/2003 (Palebase Release Frequency Obsidery) PRP Participally Posoconsible Particis (PRP Participal Participal

Date of Next Scheduled Update C4/0/ 2003 Date of Next Scheduled Update C4/0/ 2003

Reports Prepared for 1 February 24, 2003 Page# 9 of 9

TABLE OF CONTENTS

The EPR-State Reporting a comprehensive processination of government littings on a facility devilibled in a seasor of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections.

Section 1: Facility Summary.

Summary of solidy Bings including a review of the following areas wasts management.

Summary of solidy Bings including a review of the following areas wasts deposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports.

All swaitable detailed information from databases where sites are identified.

Section 3: Databases Searched and Update Information.

Thank you for your business
Please confact EDR at 1-800-352-0050
with any questions or comments

Name, source, update dates, contact phone number and description of sech of the databases searched for this report, $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1$

eader the field of the trends of the control of the

EDR and the euthogos are trademarks of Environmental Data Resources, Inc. or its allialass. All other trademarks used herein are the propostry of their respective owners.

Report* Prepared for / February 24, 2003 #89e# 2 of 9

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

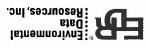
Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

MALLACE INTERNATIONAL DE PRINCORPORATED PRETIRO INDUSTRIAL PARK NA GERMAN, PR. 00683

i manga di separati INDS (alarones per EINDS) darippise may contain dependes to recorda from donarment rapidasse may also contain defendes to out of date exoca formedy associated with the side.

PPA-10: To 000/900920 To 000/9



EDR Site Reportin

SVA CEBAIVA' BB 00083 ET BELIKO IADCSLBIVE BVBK MYTTYCE IALEBAVLIOAYE DE BB IACO

February 24, 2003

Inquiry Cumber:

The Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802 Internet: www.edrnet.com

SECTION 1: FACILITY SUMMARY

TOTAL (YES)	(0)
POTENTIAL SUPERFUND LIABLITY FROM SHIPS AND OTHER LITY FROM SHIPS AND OTHER STREET FROM SHIPS AND OTHER SHIPS AND OT	CN
TVOCT assertes and much local much asserts in the	CN
(2014:4) mainte xebra e Adij re betel er ythose?	YES-P4
ADST APRIT retinu anotbegen each virios? (2TT4) ARDS3 to	CN
Fachity manufactures or imports toxic chemicals the TSCA let (TSCA)	CN
AGB beddon and bot, sobbideed securoring block? (27.22) AGRIR to Tinoboed rebru	CN
MULTIMEDIA. South uses toxic chemicals and that modited Eval.	СИ
(S.F.F.V.S) give no stoke valve to basopaib early first	CN
¿Wirtig, etra etaew vuotnazan etata e aa bereit ar yturos i	ON
Facelyy has a reported Superfund Lien on a (*16/95)	CN
ruccungled ustaidora was alsa (CERCEIS) Escrib usa a known of snapect apartoned infactive of	CN
MASTE DISPOSAL Faculty is a Superfund Site (NPL)	CN
SS WHI 100 o sciencomensiem snoprezen papodar seu kritosy	CN
(SNUE, HOY RI, O ROSPAN) ADJANTALE PRINTING PRE ANDRES	EN EN
pur incidenta (LUST) Cachiy has reported leaking undergroum storage	CN
epsturs broungsebru benefaiget separatin yt ibeil (TSU): skria	CN
egenats briumpevade beneferget eagenem ytings? (TSA) same	CN
(21 JA) a enider endocober sees yil rosi	CN
Excitiy nancies 208s (0ADS)	CN
IS "UAPPOOL shottle evicemon of toeldure need een virine?	CN
evasticinmos APOR of toe;our need sed (ditos) (CTAAR) andito	CN
LIC Ma. ROOM anoughbory to seption, betreaser and yinge?	C~
Blesv auditesentit associatio seeda alfattigitina-	CN:
SIF DR MAN BUDGAS IT EN SIS 19 C YEIDS	CN
PAGETTY	TARLIOCOSESSES FOR THE SERVICE OF T

Cale of Lest EOR Contact 11.75/2002 Cale of Next Scheduled Update C2/26/2003

```
Database Reiesse Frequency: Semi-Annually Database Reiesse Frequency 00/0 ty2002
```

PBL 1887 - 1894-09 However, and the property of the property of reported leaving of the property of reported leaving the property of reported leaving the property of reported Service (Parket) and the information sloved the property of reported Service (Parket) and the information sloved to the property of the propert

Date of lest EDR Contact: 11/25/2002 Date of Next Scheduled Update: 02/21/2003

make, no divokatok "decopae" yerspenaej. 28M3 braud zeach zeach einer divokatok per son zeach ze

Date of Last Edheduled Update 14/28,2003 Date of Government Version 12/31/2001 Database Release Frequency Annually

menya, privanya kalaniaka hadinahan kebahanya Syamim Syara U.Syarahan Syarahan Syarahan Hilli Syarahan Syarahan Kalaniaka badan Report Syalam Hilli Roomina hazandus melania kelinina kalaniakan kalaniakan Syarahan Syarah

JAZOGZIO 3TZAW Cale of Last EDR Contact 01/23/2003 Dale of Government Version 107/31/2007 Database Release Frequency, Annually

Cate of 2-46 Amival at EDR, 11:04:2002 Elapsed ASTM Days: 35 Date of Last EDR Contact, 02:04:2003 WPL. National Protecty List.

Supplying the Control of Manager and Manager and

Cate of Data Amval at EDR 11/24/2002 85 sylo I AT Pays 35 Fate of Last ADR Contact 02-04/2003 Databuse Revises Frequency Sers: Arrushy Date Made Active at EDR 12/09/2002 PROPOSED WPL Proposed Mallonal Priority 1.181 Siles Source 5AG 20urce 1.00 Septiment Mallonal Mallonal

DELISTED NPL: National Provity List Deletions Source EPA

Cole of Data Annyal at EDR 11/154/2002 Elapsed ATZA Days 15 Chale of Last EDR Contact 02:04:503 elephone: "Mit reports" ("1 2011) ("1 2011) ("1 2011) ("1 2011) ("1 2011) ("1 2011) ("1 2011) ("1 2011) ("1 20 The vibroand ("1 2011) ("

Report Prepared for February 24, 2003 Page# 5 of 9

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

amaze/2 groubon 1. forocase, 218.0 modes of the administration of

Date of Leat EDR Control Update: C4/21/2003

Tooks Substances Control Act
on Substances Control Act
on the TSC Control Act TSCA internaling manufactures and important of chambral substances inclined
internal Substances Control Act TSCA internaling manufactures and important of chambral substances inclined address
of parts of the Substances Control Act
of Substances Control
of Su

Database Release Frequency, NVA

Database Release Frequency, NVA

Database Release Frequency: Quarterry у соцуаст до в физичей реже 11 КА, 12 СА, ала ВЕСАА (Епечдеску Рамкия онбосотокі всюга эта сотрівною воймівов гоніскоу. 11 КА, 13 СА, ала ВЕСАА (Епечдеску Рамкия)

FTTS New FIREN TSCA Tracking System - FIFFA, (Federal insectiode: Fungode: & Routentibide Act)/TSCA (Toxic Substances Control Act)
Toxics PA
Toxics Act (1985-1984-1961)

FINDS: Feddiny Index System4 scrifty Identification inflative Program Summary Report Source. EPA Date of Last EDR Contact: 12/26/2002 Database Release Frequency, 20/24/2002

The country of the Charles to the Charles and the Charles and Charles of the Char

Promer Manutachiered Sat (Care Case) Seathers and resolved Case of Sat Sat Sea from profit of the Case from the Case of Sat Seathers and description of Title 10.0 (2). Cocyright 1990 (Real Tropping, Sean I not. Per Seathers and seathers of Internated description of Title 10.0 (2). Case in the Case in the Case of Internated description of Title 10.0 (2). Date of Last EDR Contact 01/06/2003 Date of Next Scheduled Update, 04/07/2003 Oale of Coverment Version 10/10/2002 Database Release Frequency: Quarterly

Discisimer Provided by Real Property Scan, Inc.

would be annassed on seen judale and, rejection of seen destination of the contract of the con

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

Elepsed ASTA days: Provides nonfinnation that that the receipt or exceeds the 90-day updating requirement

WASTE MANAGEMENT

Approve you-destinate and focusing his and focus and focus and focus and secus and focus and foc

Dalabase Reesse Frequency Vance Cate of Leat Scherluled Update C3/24/2003

Date of Next Scheduled Upriste 03/17 2003 Open Service (1976) state of the control of the con

RAAR STAAR Administrative Action Tracking System Source Age CER

CRRACIS: Consolive Action Report
Source 804.24-9346
Tokproose 804.24-9346
CRACK Confective acroin waste havalers with RCRA confective acroin acroin.

Eate of kext Scheduled Update: 03/10/2003 Date of Government Version. 09/29/2002 Database Resease Frequency: Semi Annually

Date of Leat EDR Contact: 02/10/2003 Date of Next Scheduled Lipitate: 05/12/2003 Oale of Government Version: 09/20/2002 Oatabase Release Frequency: Annually gronne, 9.526+388 . Reconstruct Catalogue PADS identifies generators transporters, commercial stories and/or proteins and disposers of PCBs who are required to notify the EPA of such activities.

U.S. Actional, Discovered Technology Symmon. Society Commission and contains a let of approximately 8,100 kHz, serious (Expension Approximately 8,100 kHz) to mentioned the Virtual Hardware Mentioned Technology Requirements and Education of Participation of Participation (Commission Commission Com

Cale of Lext Schoduled Update C4:07 2003

Report# Prepared for / February 24, 2003 Page# 5 of 9

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

CERCLIS. Comprehentive Environmental Response, Compensation, and Liability Information System Source. EPA.

Date of Last FDR Contact 12/26/2002

Date of least Scheduled Lipitate: 03/74/2003

Federal Superfund Liens, Under the authority granted the USEPA by the Comprehensive Environment and Index the authority granted the USEPA by the Best appearing the Best appearing the Superfund Liens, and Index to recover temporal actions appearing the Superfund Liens.

SHWS: The state does not manken a SHWS fat See the Federal CERCLIS fat course if The SHWS of the SHWS fat SHWS fat See the SHWS fat SHWS of S

Date of Last Envisa at EDR, 02:02:1594 62 Begosed MTPA begos 64 Beto of Last EDR Contact: 11/25/2002

Date of Last EDR Contact: 11/25/2003 Database Release Frequency: Quarterly

MULTIMEDIA

Total . Total . Chamical Release Inventory System a Source . EPA Total . Control . C

Date of Last EDR Contact: 12/26/2002 Date of Next Scheduled Update: 03/24/2003

Database Release Frequency: Anatr2000 Database Release Frequency: Annually

corned addressing of yieldress of PRR
2002 ARE POTENTIAL SUPERFUND LIABILITY

Date of Last EDR Contact of 07/22003 Date of Next Scheduled Update 04/07/2003

Report Prepared for February 24, 2003, Page# 9 of 9

TABLE OF CONTENTS

are BPS-618 pergrift is a combehavew to reachiabled in 3 search of over 4 million government records from more than 900 federal state and local anymomental disbases. The report is divided into three sections

Section 1: Facility Summary

Summary of facility Summeror a review of the following areas waste management,
waste disposal, multi-media issues, and Superfund flability.

Section 7: Facility Detail Reports.

All available detailed information from databases where sites are identified.

Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

As a part of my poort or map of Environmental Data Specialment who may any another suppression of statement of my propriate and special specia

Report# Prepared for J. February 24, 2003 Page# 2 of 9

593810 V8

PR0050405684

SECTION 2: FACILITY DETAIL REPORTS

AIG3MIT JUM

Facility uses toxic chemicals and has notified EPA under SARA Title III. Section 313

DATABASE: Toxic Chemical Release Inventory System (TRIS)

WALLACE NULL DE 2 8 INC.

Chemical namo. SlLVER
Chemical namo.

101 citation statement of the control microstate of the control micros

Environmental Data Resources, Inc.

EDR Site Reportin

SYN CEBNIYN' BB 00883 ANTTYCE INLI'' DE B'B' INC'

Inquiry Number:

February 24, 2003

3530 Post Road Southport, Connecticut 06490

For Environmental Risk Management

The Source

Data

Nationwide Customer Service

Telephone: 1-800-352-0050 Fax: 1-800-231-6802 Infernet: www.edrnet.com

SECTION 4: FACILITY SUMMARY

PACILITY I WALLACE HITL OE PIR INC. BLUE HISTORY WAS BLUE HISTORY OF 683 ERS IN STANKLONES ERS ALONSWILLONES	FACILITY
CN	WASTE MAMACEMENT SITTON OF THE INCOMENT WASHING FILE
¢x	Facility (1999) stores of needlous wester on-she RCAIS/TSBF)
211	(JO V.Z.ADR' analistorY to seado./ beviene servirios?
ĒΝ	evestion mos APDR of the just need as yithout (2TAAR) protise
CN	(STOARFOO) prodoe succensor at toalers need early lines?
CN	Facily hardes 2085 (PADS)
CN	Facility is end an aviocology seau (2012s)
EN	agenos bruonges ode baratsiget eaganam yintsa (TEA) zahea
CN	Facility manages regissated underground sterage
CN	egatois bruotenbro garante servitiva sicrage (1204) moderni serviti garante prodestrati prodestrati prodestrati
CN	(2VPB), lice est o, sexuadas yonagrania banogas sen vicios?
CN	sinacion lanatam audonazan battaga, zari viti pasa (RR MH) TCO of
109	JASOGEM STEAM (JGN) shë bruhaquë e si vinoc?
CN	гусоцькую развидоле месь ете (СЕЩСГІЗ) всейх цег в усломы с. элебест врендоцейт пинсама о.
CN	Facility has a reported Superfund Lien on 4 (LIENS)
CN	(2 WH2) site eleaw euchteaur waas alse batell et yhios?
CN	(3.0/4VVE) size-no seceny bilac to becope cert yillos?
YES-P4	AULTINEEDA *scity uses toxic oftenicals and has notified EPA *scity uses toxic all Section 313 (TRIS)
ōN.	Secury produces peablishes and has nothing EPA scriber Section 7 of FIPPA, SSTS!
CN	Security manufactures ov imports foxes chemicais or the CA LE (ESCA)
CN	ADST (ARREST STORM under STERA, TSCA BOOKA (ETTS)
CN	(SQME) matche sebril six QE in betail evidinal
ÇN	Faculty is listed in a countyfocel unique detabase (LDCAL)
rn	POTENTIAL SUPERFUND LIABILITY PROFILE AND PONENTINE LITY PROFILE AND PROFILE AND PROFILE PROFILE PROFILE PROFILE PROFILE PROFILE AND PROFILE
(N	

Date of Next Scheduled Update: 02/24/2003 Date of Next Scheduled Update: 02/24/2003

Date of Coremment Version, 93/01/2002 Database Release Froquency; Sems-Annually

Annual Company of Associated States (1994) and Associated States (1994) an

Date of Lext Scheduled Update. 02/24/2003 Date of Next Scheduled Update. 02/24/2003

FRMS: Emergency Response Abdelson System (Lined Shabes Cose) Guard (Lukric Warders) (1995) (1

Date of less ECheduled Uptale 04:28/2003

HARRS: Havandus Akanalas Intermetion Report System

The properties of the properties

Date of Next Scheduled Update 04-21-2003 Ostables Release Requercy Annually Villamin Appendix Persons Villamin Voneuper Release Release Prequency

egierone will represent a control of the TLP as a subset of CERCIAS and hardware over 1,200 sites Malconia Promest Let (Supportund). The WE is a subset of CERCIAS and hardware seasones that demonstrates as a control of the many and promestive specific and provides perspect on control of the many and provides perspect on control of the many of the many and provides perspect on control of the many of tail ylinoif landing tail yliony tail AGB Sucrea Teleprone Not reported Teleprone Not reported Sucreamental transfer WASTE DISPOSAL

Date of Data Arnval at EDR, 14:04/2002 Eispsed ASIM Days: 35 Date of Last EDR Contact: 02:04/2003

Cate of Data Arrival at EDR 11/54/2002 Elepsed ASTM Days 35 Date of Last EDR Contact 02/04/2002 Dalebase Release Frequency Serra Americally Soldstead American 10/24/2002 esis Is: I Yinong lendieth basogng : July Bacolog BPA Source Ag3 eoroce. Not eported

where M is defined the strategies of the stra DELISTED NPL: National Provity List Detelions Source EPA

Cale of Data Amval at EDR: 11/04/2003 Etapsed ASTM Days: 35 Date of Last EDR Content: 02/04/2003

Reports Prepared for / February 24, 2003 Pages 5 of 9

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

Source EPA Source EPA Telephone 202-564-5008

Date of Next Scheduled Update: C4:21/2003

by DRM SIGN. Force Substitutions Common CLL TSCA identifies manufacturers and impactiers of chamical substitutes dribtines and a TSCA Christians and inventory list. If includes upon in the production volume of these architectures. TSCA: Toxic Substances Control Act Source EPA Toxicphone 202-260.6521

FTS: FIFRA (ZoA Tandrigh am - FIFRA (Federal Insections Eurgade, s Rodenbidde AcilyTSCA (Toxic Substances Coni Teleptone - 202-564-261)

Teleptone - 202-564-261 Database Release Frequency: NVA

Date of Leat EDR Contact: 12/26/2002 . F. I. S. Sada administrative persent and personal and Community Pignit-to-Know Acti, To maxiativi ourrency. RDR contacts the Agency on a quarterly bases.

THEY MARS I PERFORM SYSTEM - FIFRA (Fladersk Insertiode, Emigode, & Roderhörde Act)/TSCA (Toxic Substances Continx Act)
Source FPA
Seiepnone 202 564.2501

Date of Last EDR Contact. 12/26/2002 Date of Next Scheduled Update. 03/24/2003 Database Release Frequency: Quarterly

The stander of no more instance (Stander of standers of standers of not of standers of sta Source EPA Source EPA

Former Warnbridtund as (Coal Gas) 78161: The existence and outpoin of Coal Cas steins provided accuratively to EDR by fleet importy Scan, Inc. (C) Copyright (1999) Real Rich Copeny Scan, Inc. ex a continued description of the types of hazards writch may be found at such sites, contact UDR cutiformer service representables Date of Next Scheduled Update: 04/07/2003 Database Release Frequency, Quarteny

Disclaimer Provided by Real Property Scan, Inc.

DOUGHOUS TO THE PROPERTY OF TH

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

the many solutions of the because to steen those that the solutions defined as well as the solution of the basis of the solutions of the solu

Conservation and Securety Act 19(184) Becambe Conservation and Upcomer Inclination System BCLIS instricts selective improvation on a secure Secured Conservation and Upcomer Inclination System BCLIS instricts selective improvation on a sec

Date of Next Scheduled Update (03/24/2003)

soling 15/20 009 compages and the Section of the Section and the Section Sec SITMARE Bonnos Reporting System
Source EPANATS

Date of Last EDR Contact: 12/17/2002 Date of Next Scheduled Liptate. C3/17/2003

Aver source through the control of t ASS Source SPA Administrative Action Tracking System Source

Date of Last EDR Contact 32,10/2002 Date of Next Scheduled Update 43/10/2003

Date of Last EDR Contact 12,09/2002 Date of Next Scheduled Update: 00/10/2003 Dalabase Release Frequency: Semi-Annually Dalabase Release Frequency: Semi-Annually CORRACTS: Corective Action Report
Survey EPA,
200-424 9346
CORRACTS densities that and/ors waste translers with RCPA collective action activity
CORRACTS densities that and/ors waste translers with RCPA collective action activity

(e)eponoe, 202-564-3887 PCB Accurate Dabbase PADS stentifies generations transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA or such activities.

Date of Lest EDR Contact 02/10/2003 Cate of Next Scheduled Update: 65/12/2003 Database Release Frequency Annually

6917-21 embrode (2014) 1997-1998 Regulatory Commission and contains a list of approximately 8,103 Michael possess or use anderdive melanus and whom are subject to MRC licensing requirements of the presence or use anderdrive and superfix on a qualificity to a serial process.

Date of Lest EDR Contact: 01:06:2003 Date of Next Scheduled Update: 04:07:2003

Report# Prepared for / Fabruary 24, 2003 Paga# 5 of 9

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

ATRISTS aft to Dropping needs were line asite stews, accessors, Vederators on eithe synamoco BLORB 3, eyamoo and b. COTI nobleed of insusmus, sonorand setring hors estimations werning seekergerum assets brink wasts anwiscon 28.10399.3 (ALDRB30) to Artifecta line, mosterengnoss, eyeropesel kilomenter innin wasts anwiscon 28.10399.3 (ALDRB30) to Artifecta line, mosterend mosterend between innin entre and innin anwiscon services and anwiscon services and any anti-principal properties of the Source Comprehensive Environmental Response, Compensation, and Lability Information Syste Source

Date of Data Amival at EDR- 12/26/2002 Elepard ASTA Days, 20 Date of Last EDR Contact 12/26/2002

Source EPA

Source EPA Deleration (Contact: 12/25/2003 Database Release Frequency: 02/13/2002

NOS-564-124, OSC-564-124, or Observable to the Charles of Polishing Comprehensive Environment and polishing to the Charles of Polishing Comprehensive Environment and the Charles of Polishing Comprehensive Charles of Polishing Comprehensive Environment and the Charles of Polishing Comprehensive Charles of Polishing Comprehensive Charles of Polishing Comprehensive Environment and the Charles of Polishing Comprehensive Charles of Polishing Charles of Polishing Comprehensive Charles of Polishing Ch

Date of Soverment Version 10/15/1991 Date Made Active at EDR: 03/30/1594 Date Made Active at EDR: 03/30/1594

HWYS: The state does not manters a SHWS liet. See the Federal CERCLIS list takes. EPA. Sheet Harandow Washe Shue Sheet Paramotus washe site noorute see the states equivalent to CERCLIS Sheet Harandow Washe Shue Sheet Paramotus washe site noorute see the states equivalent to Sheet Harandow Washe Shue Sheet Paramotus washe site noorute see the states Sheet Harandow Washe Sheet S

Date of Lest EDR Contact 1175/2002 Date of Government Version: 07/12/2001 Database Release Frequency Quarterly

PR SWELLE.

AIGEMITTUM

To 17.2 Fig. 17.0 periods Release Inventory System 20.0 (2017) and 2017 a

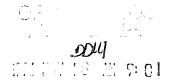
Date of Fast Echeduled Lipitate (53/24:2003 Osite of Coverment Version 12/21/2006

SECTION 3: DATABASES SEARCHED AND UPDATE DATES ... Confinued...

Cale of Government Version 04/08/2003 Database Release Frequency Ouahedy PRP: Potentality Responsible Partice Source EPA 1 deplaces 202,564,8064 A tatilig of verified Polentially Responsible Parties YTIJIBALI GNURRBAUR JAITNETOR

Cate of Last EDR Contact Option: 04:07:2003 Cate of Mext Scheditled Update 04:07:2003

Report# Frepared for / February 24, 2003 Page# 9 of 9



Environmental Analysis

Installation of a Wastewater
Discharge and Disposition Reduction System

Submitted by: Eng. Ricardo Santana Environmental Coordinator

NJP Insertco a subsidiary of Menasha Corporation San Germán, Puerto Rico

November 11, 1996

Introduction

NJP Insertco has been in operations since 1985 with the former name of Insert Corporation of Puerto Rico, Inc., but with Menasha Corporation's acquisition in March 1995, an expansion project began and starting on March 1996, we moved our Insert and Outsert manufacturing operations to PRIDCO facility S-0551-0-54, located at Industrial Park El Retiro, San Germán.

In our search for a safer workplace, we have incorporated the usage of more environmentally conscious products and raw materials, at the cost of the generation of a wastewater stream that arises from our printing process whose disposition costs have led us to the installation of a wastewater evaporation system that will help us reduce the regular wastewater volume by around 95%¹.

Even though there will not be a negative environmental impact from the installation, usage and maintenance of the evaporation unit, the construction of a Storage Room at the Southwest portion of the facility is required to house the evaporator and its instrumentation, a project which will be discussed throughout this document.

This Environmental Analysis is submitted in compliance with the Public Environmental Policy Law of the Commonwealth of Puerto Rico; Article 4C, Law #9 of June 18, 1970.

Additional information on the evaporation system is included as part of Appendix A.

Table of Contents

Project Description	4
Utilities	5
Environmental Considerations	7
Water	7
Air	7
Stormwater	7
Waste Generation and Noise	8
Solid Waste	8
Noise	8
Social and Economical Aspects	R

Project Description

For the installation of the LS-55 Evaporation Still, the construction of a Storage room at the southwestern part of PRIDCO facility S-0551-0-54, located at Industrial Park El Retiro in San Germán is required. This storage room will at the same time store the chemicals used intrinsically in our production process, all of which are currently being kept in our original facility and have to be transported and/or transferred every time their usage is required.

Facility Description

The structure consists of 36,000 ft² of internal production area, in which our production printing process has been arranged; together with enough area for the storage of raw materials, an employee break-room, and a designated area for conferences and/or training sessions. The facility is bounded by a vacant PRIDCO facility at the north, Wallace International and PREPA's electrical substation at the west, General Electric's facility on the south, and a drainage ditch that runs parallel to PR 102 at the east².

The storage room in discussion will occupy an area of 220 ft 2 (12' x 18') and will be constructed out of concrete, 4 x 4 columns of galvanized iron, structural iron (or its equivalent) and galvalun. An internal electrical grounding system will be installed to provide for the proper groundage of all flammable liquid containers, as well as for the evaporation unit.

Further details can be appreciated by referring to Appendix B, Site Plan of Insertco Facility

Utilities

Water will be one of the utilities required for the condenser and cooling coil that drops the temperature of the evaporator's body. At regular operation, the condenser requires a flow of 1½ g.p.m., while the cooling coil requires 7 g.p.m. for the tank cool-down. The condenser will work while the evaporator is in operation for approximately 12 hours; the cooling coil will require water flow for one hour, as recommended by the manufacturer.

Outlet temperatures are well within the PRASA parameters for sewer discharge temperature of 40 °C; the outlet temperature from the condenser is expected to be 80° , 102° F from the cooling coil. All calculations are included as part of this documentation on Appendix C 3 .

Power consumption of the evaporation unit will not exceed 6.6 kVA ($220 \text{ V} \times 30 \text{ A}$; single phase) which could be considered non-significant, since our average consumption is near the vicinity of 440 kVA and the electrical transformer that energizes the whole facility has a capacity of 1,000 kVA. No significant changes or alterations will be required in the internal electrical distribution other than providing a 220 V single phase line, similar to the one installed for the domestic usage of an electrical stove.

Thermodynamic properties were all obtained from Perry's Chemical Engineers Handbook, 6 Edition; equations used were obtained from Randall N. Robinson's Chemical Engineers Reference Manual and Larry E. Wright's Chemical Engineering Quick Reference Cards.

Operation Process

The LS-55 Little Still Solvent Recovery Unit is manufactured by Finish Engineering Co., Inc., Pennsylvania; originally designed to recover contaminated organic solvents safely. Its construction design is an advantage for our project, since the unit comes will many safety standard features, such as an explosion proof tank and NEMA-7 instrumentation. These exceeded safety features will provide a safer environment for operators working with a non-flammable and non-explosive waste stream. Our wastewater proved to be non-hazardous after tested for RCRA parameters of ignitability, corrosivity and reactivity. In our situation, the solvent recovered is essentially water with dissolved organics in concentrations of parts per billion (ppb).

The unit's operation consists mainly on an electrical resistance that will transfer heat directly to the boiling tank. All the material to be evaporated will be poured directly to a polyethylene liner inside the tank which will serve to permit the collection of waste concentrates easily without having to clean the tank itself and to protect the walls of the tank from fouling accumulation, which leads to higher costs in electrical consumption due to poor heat transfer. Once the material evaporates, convective flow transfers it through the condensing heat exchanger. All water condensates will be collected in designated drums and reused.

Electrical and heat transferring parts are properly isolated from the operator. The boiling tank capacity is 55 gallons and the unit is capable of evaporating up to 4 gallons per hour of our particular waste.

Environmental Considerations

Water

The equipment requires water for the condensation of distillates and for the cool-down of the tank itself (if it were necessary). The volume of water for condensation will be approximately 72 gallons a month and if required, cool-down will not require more than 30 gallons a month, for a total of $102 \pm 10\%$ gallons on a monthly basis.

This water will not undergo any chemical processing and its discharge will be at a temperature slightly higher than that received⁴, but still under the discharge limit of 40°C established by PRASA. The additional discharge volume should not adversely affect NJP Insertco, nor the local wastewater treatment plant, since this volume represents less than 0.5% of the discharge originally reported to PRASA of 20,440 gallons per month (730 G.P.D.) on the Industrial Survey Questionnaire submitted back in October 1995.

Air

The evaporation process will generate water vapor which will be condensed and reused. No emissions will result from this process that could harm the environment in any way, since testing our wastewater stream in detection limits of up to 0.001 mg/L for Volatile and Semi-Volatile Organic Compounds, no traces were found⁵.

Stormwater

All equipment will be maintained inside a storage room, so no exposure to Stormwater will occur. At the same time, the Storage Room will be constructed with internal contention devices, as to retain any incidental spill of either chemicals or wastewater. NJP Insertco has its own Incidental Spill Response team and a written plan for incidental spill response together with documentation on all training sessions, all available upon request.

Calculations are included as part of Appendix C.

⁵ Beckton Laboratories results are included as part of Appendix D.

Waste Generation and Noise

Solid and Special Waste

NJP Insertco's wastewater stream has been certified as Non-Hazardous by a privately owned Analytical Laboratory. All liquid wastes are collected at NJP Insertco by private transporters contracted by BFI and disposed of at BFI's industrial cell in Ponce, Puerto Rico.

No solid wastes will be generated from this process and distillation bottoms will continue to be sent to BFI's solidification pit.

Noise

This equipment has no impact or moving operable parts. Still, NJP Insertco will keep providing all necessary and required PPE to all operators.

Noise levels are expected to remain in the vicinity of 65 to 75 db.

Social and Economical Aspects

Because of its random usage, this equipment will not require any permanent designated personnel for its operation, thus no new or further employees will be required.

Appendix A

Appendix B

Site Plan of Insertco Facility



MANUAL PNEUMATIC PUMPS

Thompson Manual Pneumatic Pumps are ideal for use either when a flow of up to 5 gpm is required or when elevating the flow as much as 12 ft.

Models A & FH with polyethlene and lead tubing. Either will accommodate all common acids and solvents. Both tubings can be adjusted to the depth of the container.

Air is supplied manually (Model A) or through the use of a bellow-type foot pedal (Model FH).

The flow can be stopped by releasing the air pressure, lifting up on the small finger release valve. The long tapered plastic plug fits openings with inside diameters from 1" to 2". This range covers most standard glass carboys and many of the other types of commonly used acid containers.

NOTE: When not in use, lift pump out and lay on its side. This removes the pump from corrosive acid fumes and also forces the ball valve to roll off its seat, preventing it from sticking.

TUBING RECOMMENDED FOR USE WITH ACID PUMPS

Polyethelene Plastic Tubing — Will satisfactorily handle all of the common acids.

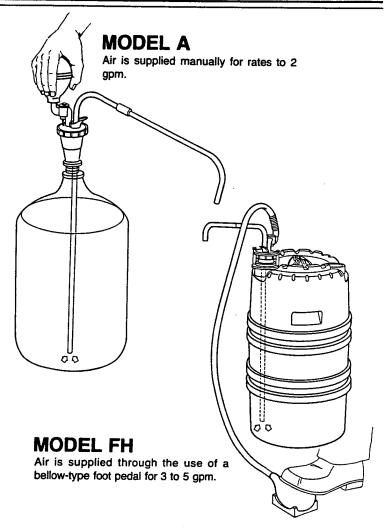
Chemical Lead Tubing — Boric, chromic, conc. nitric, phosphoric, and sulphuric acids. Bisulfates, chromates, phosphates, sulfites, and sulfates. Acetone, benzol, carbon terrachloride, ether and phenol. Photographic solutions. Plating industry solutions.

GENERAL INFORMATION

To use in Carboy — Neck opening is larger than 2" I.D., so specify Adapter.

To use in 55 Gal. Drum — Insert the pump, fitted with Adapter, in the 2" bung opening. If the larger opening is at the top of the standing drum, an additional 10" of tubing must be specified to compensate for the extra height of this larger drum.

Additional Tube Set to be purchased. Please specify.



ADAPTERS









NO. 468 ADAPTER

Slips on over the pump or pouring spout plug to increase its diameter to 2 1/2". This is indicated when the pump is to be used in 15 gallon stainless steel nitric acid drums and most polyethelene plastic carboys.

NO. 470 ADAPTER

Screws into the opening of 55 gallon stainless steel nitric acid drums with a 2" I.P.S. opening. The pump or pouring spout is then inserted into this adapter. No. 1 Hold Down Clamp is to be ordered.

DELEWARE ADAPTER

Screws into the Deleware containers with a 2" buttress thread. The pump or pouring spout, is then inserted into the adapter. No hold down required.

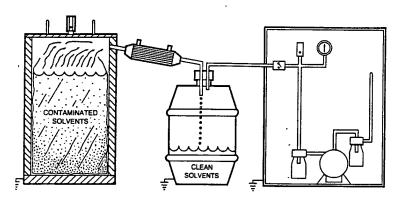
DELDRUM ADAPTER

Has 2" male buttress thread. No. 1 hold down. 13-gallon to 16-gallon Deldrum - 260#. For Deldrum's and Delboy's.



Distill solvents such as:

- MINERAL SPIRITS
- STODDARD SOLVENTS
- KEROSENE
- VARSOL
- AND MANY MORE



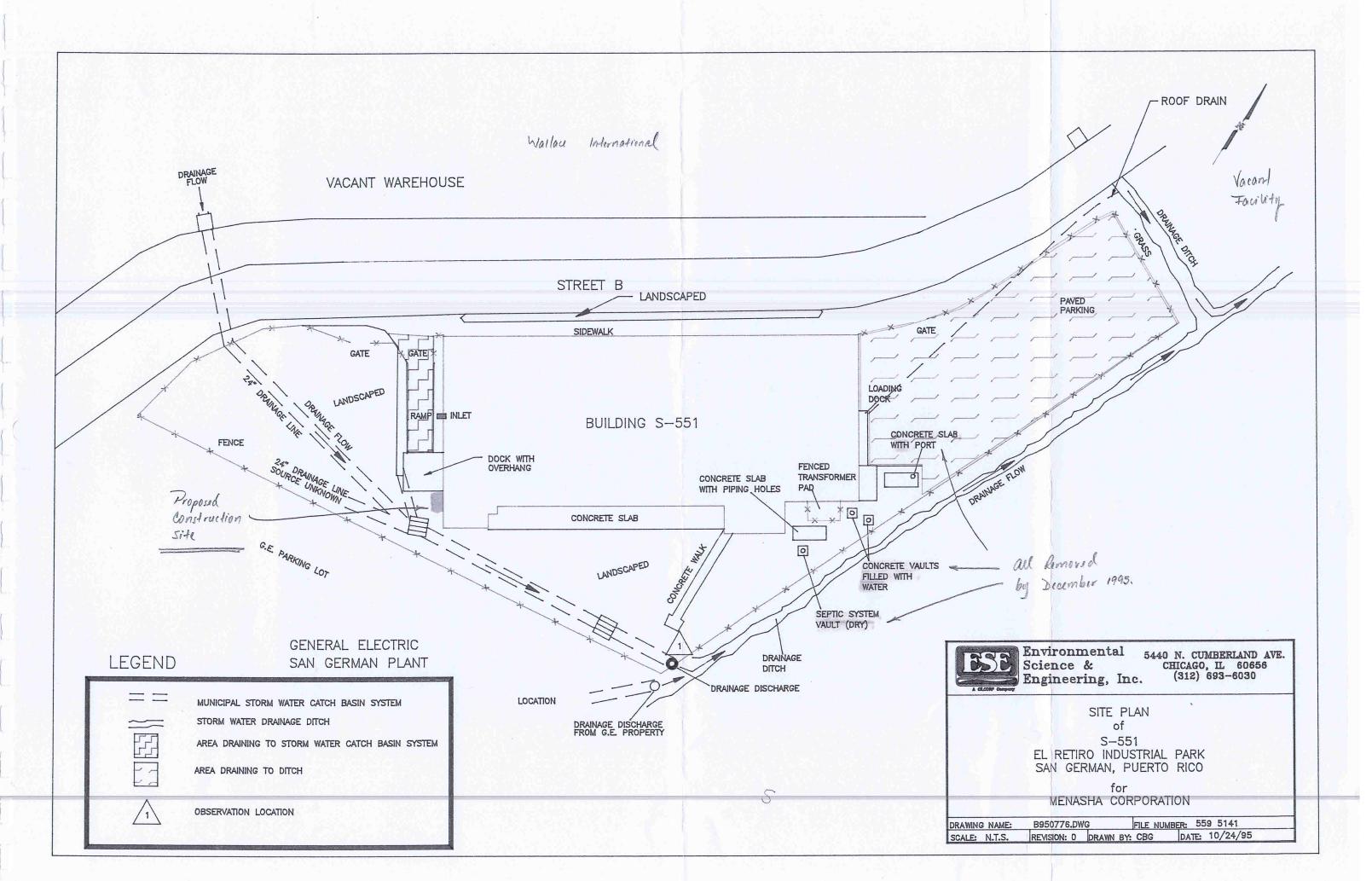
The LS Vacuum Series Stills expands your operating capabilities for "High Boiling Solvents".

Features:

- Distill solvents with up to 500°F boiling ranges.
- Capacities up to 55 gallons per process.
- All explosion proof, Class 1, Group D, Division 1 design.
- Achieves up to 26 inches mercury vacuum.
- Selector switch for vacuum or atmospheric operation without plumbing change.
- Vacuum control valve
- Vacuum gauge
- Fully grounded

FINISH ENGINEERING CO., INC.

921 GREENGARDEN BLVD. • ERIE, PENNSYLVANIA • USA 814/455-4478 • TWX: 510-696-6816



Appendix C

Effluent Temperature Determination

LS-55 Little Still, Finish Engineering Co.

Exit temperature for the evaporator's body cool-down water stream

Based in one hour of operation, as required by manufacturer

Volumetric flow of cooling fliud Cooling Coil, Cu Type M Hard 3/8 7.000 gpm 0.495 ID in. 0.016 cfs 0.041 ID ft.

Water Properties @ 80°F

Density

62.220 lb/ft³

Viscosity

0.860 cP

2.081 lb/(ft hr)

Heat Capacity

4.18 kJ/(kg K)

0.998 BTU/(lb °F)

Thermal Conductivity

0.363 BTU/(hr ft °F)

Water feed pipe, ½ in Sch 40 PVC

0.622 in (ID)

Velocity of cooling flow

7.582 fps

Properties of cooling coil

Velocity of cooling flow inside coil

12.118 fps

Reynold's Prandtl 51,770 Flujo Turbulento

rianuti

5.72

Nusselt

285.16 Sieder & Tate

Convection coefficient

h

2,524.71 Btu/(ft² hr °F)

Total heat removed

214,971.47 Btu

Obtained from the "Time required for distillation" sheet)

Exit temperature of cooling stream

Heat transfer area of tank	3.792 ft ²
Time required for cooling	1.000 hr
Water feed temperature	80 °F
Temperature Gradient	22 °F

Exiting Temperature

102 °F

Temperatures of streams flowing out of the condenser

Condenser is a double tube heat exchanger, with water vapor as the hot fluid on inner pipe

Volumetric flow of water vapor

4.372 gph

0.00016236 cfs

Diameter of Internal pipe (D_i)

1.500 in (ID)

Sch 80, 11/2 in., steel

Flow area on internal pipe

0.0123 ft²

Convection coefficient of flow inside of the internal pipe

Water vapor velocity

0.013 fps

Vapor density @ 212 °F

0.037 lb/ft3

Vapor viscosity @ 212 °F

0.00001202 Ns/m² 0.0120 cP

2.91E-02 lb/(ft hr)

Thermal conductivity of vapor

1.43E-02 Btu/hr ft °F

Heat capacity

0.48460000 Btu/lb °F

Reynold's number for vapor stream

8 Flujo Laminal

Prandtl number for vapor stream Nusselt number (Sieder & Tate) 0.986 0.142

Internal Convection Coefficient (h₁)

0.016 Btu/(hr ft² °F)

Diameter of the outer pipe of the HX

3.150 in. (OD)

3.000 in. (ID)

Intermediate Convection Coefficient (h ,c)

0.008 Btu/(hr ft² °F)

Convection Coefficient for the cooling fluid

Volumetric flow of cooling water

1.500 gpm

HX External pipe diameter

3.000 in. (ID)

Equivalent Diameter (Annulus & External)

4.500 in

Cooling fluid properties

Water Density @ 212 °F

62.220 lb/ft3

Viscosity @ 212 °F

0.860 cP

2.081 lb/hr ft

Thermal Conductivity

0.363 Btu/lb ft °F

Heat Capacity

0.998 Btu/lb

Reynold's Number for the cooling fluid

1,220 Flujo Laminal

Prandtl Number

5.721

Nusselt Number (Sieder & Tate)

14.221

External Convection Coefficient

ho

13.766

Overall Clean Heat Transfer Coefficient (Uc)

Taking into consideration pipe wall resistance

0.0078 Btu/ft2 hr °F

Temperatures of streams exiting the condenser

Massic Flow of water

748.636 lb/hr

Massic Flow of vapor

0.022 lb/hr

Length of the Heat Exchanger

1.083 ft

Feed temperatures

water

80.000 °F

R value

70,080

vapor

212.000 °F

x value

2.543

Exiting temperature of condensed fluid

131.907 °F

Exiting temperature of cooling fluid

80.001 °F

Time Required for Distillation

Solvent Data

Solvent Density 8.33 lbs/gal Solvent T_{bp} 225 °F

Tank's Maximum Capacity 55.00 gal

Pounds of Fluid in Tank458.15 lbsDT145 °F

Heat Required by Solvent

Distillation Time (approx)

Specific Heat Capacity 1.00 Btu/lb °F Latent Heat 136,214.72 Btu/lb

Heat required by solvent 66,431.75 Btu *Total Solvent Btu* 202,646.47 Btu

Vessel Btu 12,325.00 Btu

11.95 hr

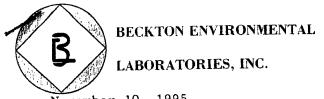
Heat Loss (determined bo means of a graph provided by the manufacturer) 3,190.00 Btu/hr

Estimated time required for the distillation

Heat Input 17,983.00 Btu input / hr Heat Required 214,971.47 Btu total

Appendix D

Analytical Laboratory Results



November 10, 1995

ANALYSIS REPORT

SAMPLE IDENTIFICATION: Residual Solución de Fuente Prensa NJP Inserco San Germán, P.R.

Attn.: Mr. Ricardo Santana

Lab Name: Beckton Environmental Laboratories Contract: Inserco

Matrix: ___Water ___ Lab. sample ID: __BEL-15197____

Sample wt/vol:_1000/5.0_ (g/mL)__mL__ Lab. File ID:__15197TCL___

MAXIMUN CONCENTRATION OF CONTAMINANTS FOR CHARACTERISTIC OF TCLP TOXICITY

EPA HAZRDOUS WASTE NUMBER	CONTAMINANT	RESULTS (mg/L)	DETECTION LIMIT (mg/L)	REGULATORY LEVEL (mg/L)
	METALS (SW 6000/7000)			
D004	Arsenic	N.D.	0.002	5.0
D005	Barium	0.3530	0.00009	100.0
D006	Cadmium	0.0019	0.00015	1.0
D007	Chromium	0.0195	0.0006	5.0
D008	Lead	0.0193	0.002	5.0
D009	Mercury	N.D.	0.0005	0.2
D010	Selenium	0.459	0.002	1.0
D011	Silver	N.D.	0.00075	5.0
	VOLATILE ORGANICS (SW 8	010; SW 8015;	SW 8021.)	
D018	Benzene	N.D.	.040	0.5
D019	Carbon Tetrachloride	N.D.	.040	0.5
D019	Chlorobenzene	N.D.	.040	100.0
D021	Chloroform	N.D.	.040	6.0
D027	1,4-Dichlorobenzene	N.D.	.040	7.5
D027	1,2-Dichloroethane	N.D.	.040	0.5
D029	1.1-Dichloroethylene	N.D.	.040	0.7
D029	Methyl Ethyl Ketone	N.D.	5.00	200.0
D039	Tetrachloroethylene	N.D.	.040	0.7
D039	Trichloroethylene	N.D.	.040	0.5
D040 D043	Vinyl Chloride	N.D.	.020	0.2
DU43	11111 01120220			

N.D.- not detected



Analysis Report Page -2-

SAMPLE IDENTIFICATION: BEL-15197

EPA HAZRDOUS WASTE NUMBER	CONTAMINANT	RESULTS (mg/L)	DETECTION LIMIT (mg/L)	REGULATORY LEVEL (mg/L)
	SEMI-VOLATILE ORGANICS (ST	W 8270)		*
D023	o-Cresol	N.D.	.002	200.0
D024	m-Cresol	N.D.	.002	200.0
D025	p-Cresol	N.D.	.002	200.0
D030	2,4-Dinitrotoluene	N.D.	.002	0.13
D032	Hexachlorobenzene	N.D.	.002	0.13
D033	Hexachloro-1,3-butadiene	N.D.	.002	0.5 "
D034	Hexachloroethane	N.D.	.002	3.0
D036	Nitrobenzene	N.D.	.005	2.0
D037	Pentachlorophenol	N.D.	.002	100.0
D038	Pyridine	N.D.	.002	5.0
D041	2,4,5-Trichlorophenol	N.D.	.002	400.0
D042	2,4,6-Trichlorophenol	N.D.	.002	2.0

N.D.- not detected

HAZARDOUS CHARACTERISTICS

IGNIGTABILITY: Hazardous Waste Number D 001

The sample does not exhibit the characteristic of ignigability according to the U.S. Environmental Protection Agency, Manual SW 846, "Test Methods for Evaluating Solid Wastes".

Flash point > 1400 F

CORROSITIVITY: Hazardous Wastes Number D 002

The sample does not exhibit the characteristic of corrosivity according to the U.S. Environmental Protection Agency, Manual SW 846, "Test Methods for Evaluating Solid Wastes".

The pH of the sample was 8.03 S.U. @ 10 oc.

REACTIVITY: Hazardous Wastes Number D 003

Sample does not exhibit the characteristics of reactivity according to U.S. Environmental Protection Agency, Manual SW 846, "Test Methods for Evaluating Solid Wastes".

Sulfide < 10 ppm (limit 500 ppm)

Cyanide < 10 ppm (limit 250 ppm)

192 VILLA STREET
PONCE. P.R. 00731

TEL. (809) 841-7373 FAX (809) 841-7313



Analysis Report Page -3-

SAMPLE IDENTIFICATION: BEL-15197

Certification and release of the data contained in this Report of Analysis has been authorized by the Laboratory Manager or the Manager's Designee.

Eulalia Medina Pérez LIC. # 3901 A 386176

Lcda. Eulalia Medina

Chemist

Chemist License 3901

TEL. (809) 841-7373 FAX (809) 841-7313



PROCESS FLOW DIAGRAM



Customer Service

Receives Component Specification, Artwork, Customer Order and creates Order on System.



Scheduling

Verifies raw materials, tooling and equipment availability. Enters order on schedule.



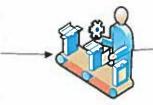
Quality Approval

Verifies order against customer original order, product specification and approved artwork.



Pre-Press

Creates printing plates from customer artwork and specifications.



Press

Order is Printed, Coated and Die Cut. QA Inspects samples beginning, middle and end of the run as per approved SOP.



Cut

Cut the order to final customer flat size. QA inspects samples at begging and end of the run as per approved SOP.



Folding/Packaging

Order is folded to final folding size per customer specs, and its packaged into its final shipping box.

QA inspects beginning, middle and end of each run as per approved SOP.



Quality Release



Shipping

Order Documentation is verified to assure that all documentation, sampling and testing have been properly completed. Release is signed by QA.

CCL Label San German Process Flow Diagram

Reviewed by: Sc 01/17/12

Reviewed by:

0/17/12



Activity by Contract and Waste Generator

Date Range: 1/26/2010 to 10/26/2015

CCL Label: 14084

Special Waste Only Detail Report

Date	Ticket	Material	Reference		Tons	Tracking QTY	Tracking UOM	Billing QTY	Billing UOM
	Contract - 4217Y43	32706-VACUUM	Ticket Count	15	23.54	5,106.00		5,117.20	
	Generator:	4294 CCL INSE	RTCO						
4/13/11	555741	FEE-HAUL/TRANS/TRUCK	MA11636/ST.6432		0.00	1.00	EA	1.00	EA
4/13/11	555741	SW-SPECIAL WASTE-LIQUID	MA11636/ST.6432		0.00	800.00	GL	800.00	GL
4/13/11	555741	SW-SPECIAL WASTE-LIQUID	MA11636/ST.6432		3.26	0.00	GL	3.26	TN
1/24/12	588257	FEE-HAUL/TRANS/TRUCK	MA.19584/ST.10896		0.00	1.00	EA	1.00	EA
1/24/12	588257	SW-SPECIAL WASTE-LIQUID	MA.19584/ST.10896		0.00	900.00	GL	900.00	GL
1/24/12	588257	SW-SPECIAL WASTE-LIQUID	MA.19584/ST.10896		3.39	0.00	GL	3.39	TN
2/8/13	629743	FEE-HAUL/TRANS/TRUCK	MA.30107/ST.15102		0.00	1.00	EA	1.00	EA
2/8/13	629743	SW-SPECIAL WASTE-LIQUID	MA.30107/ST.15102		0.00	1,000.00	GL	1,000.00	GL
2/8/13	629743	SW-SPECIAL WASTE-LIQUID	MA.30107/ST.15102		4.55	0.00	GL	4.55	TN
11/5/13	997208	FEE-HAUL/TRANS/TRUCK	MA36923/ST.17656		0.00	1.00	EA	1.00	EA
11/5/13	997208	SW-SPECIAL WASTE-LIQUID	MA36923/ST.17656		3.72	800.00	GL	800.00	GL
8/5/14	1024185	FEE-HAUL/TRANS/TRUCK	MA41979/ST.18965		0.00	1.00	EA	1.00	EA
8/5/14	1024185	SW-SPECIAL WASTE-LIQUID	MA41979/ST.18965		3.26	800.00	GL	800.00	GL
9/25/15	1063806	FEE-HAUL/TRANS/TRUCK	ma49490/st.21900		0.00	1.00	EA	1.00	EA
9/25/15	1063806	SW-SPECIAL WASTE-LIQUID	ma49490/st.21900		5.36	800.00	GL	800.00	GL
			Grand Totals	15	23.54	6.00	EA	6.00	Е
						5,100.00	GL	5,100.00	Ġ
								11.20	T



Attention All Employees!

As an employee, or on - site contractor, you have the right to be informed of all hazardous chemical substances to which you may be exposed in the workplace area.

29 CFR 1910.1200



SDS INDEX

Product Name

Manufacturer

Pre- Press Area Chemicals

- Fn-6 Plate Finisher Gum
- Fog Shield XP
- LP-D3WR Laser Plate Dev. Work. Sol. Rep.
- LP D3W Laser Plate Dev. Working Sol'n
- o Fuji Film
- o Baush & Lomb Inc.
- o Fuji Film
- o Fuji Film

Press Area Chemicals

- Aeon 9000
- Aerosol Anti-Static Spray
- Allied Orange Wash
- Allied U.P.C. Plate Cleaner
- Permanent Blanket Repair 02290
- Enviro Blanket Restorer
- Fountain Concentrate 2451
- Fount 379
- IPA

- o Gardner Denver
- o Varn Products
- o Allied Pressroom Chemistry
- o Allied Press Room Chemistry
- o Varn Products
- o Lithco, Inc.
- o Printers Service
- Day International Chemical Products
 Div.
- Day International Chemical Products
 Div.



- IPA USP
- Kwik' N Easy
- LD 935
- Majesta 400
- Majesta 606
- Powdered Systems Cleaner
- Revitol 02220
- Velocity Plate Cleaner
- Wash V-120
- Plate Cleaner And Preserver
- Infinity Wash HMK-1WM
- CTP Scratch Remover

- o Exxonmobil Chemical Company
- Superior Printing Inks
- Sealed Air Corporation
- o Day International Chemical Products
 Div.
- o Varn International Inc.
- o Allied Pressroom Chemistry
- Varn Products
- o Printers Service
- Day International Chemical Products
 Div.
- o Tower Products, Inc.
- o Tower Products, Inc.
- o Tower Products, Inc.

Printing Inks

- Biolocity MT Process Colors
- Offset Precision Pantone Colors
- Offset Rotary (No Heat Web Offset)
- Offset Soy Rotary/Business Forms
- CML Oil Base Plus Colors
- PRP50005-R
- Soy Insert Dense Black

- o Superior Ptinting Ink Co.
- Van Son Holland Ink Corp.
- o Sun Chemical Corp.
- o Sun Chemical Corp.



- Elite Precision Pantone Colors
- Relay Process Series Items
- V-THERM DK BROWN: G2983
- Intense Black S9800
- V-THERM PMS 4635-U B
- Intense Process Yellow: C235
- Intense Process Black: CD01

- o Superior Ptinting Ink Co.
- o Sun Chemical Corp.

Folding Area Adhesives

- CLYSAR SHRINK FILMS
- Craigstik 3991 Pi
- Exifilm Plus
- Fixol-E
- HI 2198 X
- L-516 / 4 Adhsive
- L- 179
- Pr -0187-Eb
- Pr 3755 -800
- Resin Adhesive
- Wb 0525 -800
- Wb 0571

- o E.I. Dupont De Nemous & Co.
- o Craig Adhesives & Coatings Co.
- o Intertape Polymer Group
- o Habasit Ag
- o H.B. Fuller Company
- o Sea Lock
- o H.B. Fuller Company
- o H.B Fuller Company
- o H.B. Fuller Company
- o Capital Adhesives
- o American Chemical Inc.
- o H.B. Fuller Company



- Wb 40 -5057
- 51-3053t

- o American Chemical Inc
- Henkel Adhesives

GENERAL USE LUBRICANTS AND OILS

- Electrical Grade Silicone Aero
- Lps 2 Industrial Strenght Lubricant
- Mac I Multipurpose Lithium Grease
- Mobil Hydraulic Oil Aw 46
- Mobil Shc 634 Synthetic Lubrican
 Oil

- o Crc Industries Inc.
- o Lps Laboratories
- o Warren Distribution Inc.
- o Exxonmobil Oil Corp
- o Imperial Oil (Exxonmobil)

General Use Cleaning Compounds

- Alkaless V (Alcohol Replacement)
- Ammoniated Glass Cleaner
- Damp Mop
- Eyesaline Concentrate
- Guardsman Ata Spot Remover
- Lps Mr 650 Food Grade Mold
 Release
- Lps Precision Clean Ready To Use
- Lps Presolve # 1420

- o Printers Service
- o The Fuller Brush Company
- o Spartan Chemical Company
- o Fendall Inc
- o Guardsman Products
- o Lps Laboratories
- o Lps Laboratories
- o Lps Laboratories



- Lotion Soap
- Micrell Antibacterial Foam
 Handwash
- Nabc Urinal Screens With Deodorizing Blocks
- Purell® Instant Hand Sanitizer
- Rosin Core Solder
- Spray Buff (Non Polymer, Non Solvent)
- Super Jell Compound 8124

- o Gojo Industries
- o Gojo Industries
- o Spartan Chemical Company
- o Gojo Industries
- o Bow Solder Products Co.
- o National Chemical Laboratories
- o Superior Printing Inks

Pre- press area Chemicals

凾 FUJIFILM

MATERIAL SAFETY DATA SHEET

Finished Goods Catalog 55815140 - FN-6 PLATE PINISHER GUM (6X1QT)

Manufacturer Name FUJI PHOTO FILM USA, INC.

SECTION 1 - COMPANY IDENTIFICATION

FUJI PHOTO FILM USA, INC. 200 Summit Lake Drive Valhalla, NY 10595-1356

CHEMIREC (24 HRS) EMERGENCY NO: Inside US & Canada: 1-800-424-9300 Outside US & Canada:1-703-527-3887 MEDICAL (24 HRS) EMERGENCY NO: Prosar: 1-877-935-7387 MSDS FAXBACK (24 HRS): 1-688-354-3854

NON-EMERGENCIES:

1-800-473-3854 EHS Hotline: General Information:1-914-789-8100

MSDS ID: 5405FF

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

			TIME WEIGHTS	ED AVERAGES
Ingredients	CAS Number	Wt.t	OSHA PEL	ACGIH TLV
23			(mg/m3)	(mg/m3)
Benzyl Alcohol	100-51-6	1-5%	NE	HE
Ethylene Glycol	107-21-1	1-5%	125 C	100 C
Gum Arabic	9000-01-5	1-5%	NE	NE
Starch Phosphate	11120-02-8	0/5-1.51	NE	NE
Starch Derivative	9049-76-7	10-20%	NE	NE
Water	7732-18-5	60-80#	NE	RE

NE=Not Established; STEL=Short Term Exposure Limit; C=Ceiling Limits; PEL= PEL-Permissible Exposure Limits; TLV-Threshold Limit Values

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Clear, pale yellow, aqueous liquid

Odor: No odor

Skin, eye, muccus membrane and respiratory tract irritant. Keep away from excess heat. Avoid contact with strong exidizers, strong acids and strong

Wear equipment to protect eyes, skin and respiratory tract. Dike or absorb

spills to keep material and run-off from entering sewer or waterways. Use water to cool containers and disperse vapors.

Box may contain multiple containers having multiple components. Consult all MSDSm.

HMIS: Health: 1 Flammability: 0 Reactivity: 0 Protection: C NFPA: Health: 1 Flammability: 0 Reactivity: 0 Spec. Haz.: None

Hazard Rating: 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe A = Gloves B = Gloves & Goggles C = Gloves, Goggles & Apron D - Face Shield, Gloves, Goggles & Apron

UN HO: None

DOT GUIDE: ERG Guide 111

Potential Health Effects:

Contact causes irritation.

Eyes: Causes irritation.

Inhalation: Irritant to respiratory tract and mucous membranes. Ingestion: Ingestion of product may cause nausea and vomiting.

Conditions aggravated by exposure:

Allergic reaction to gum arabic may cause respiratory distress and sensitivity.

N

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush with COOL water for 15 minutes. Call a physician. Skin Contact: In case of skin contact; immediately flush with cool water for 15 minutes. Call a physician.

Incestion: In case of ingestion; seek immediate medical attention.

Immediately remove victim to fresh air. Call a physician for further Inhalation: recommendations.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: None deg F (TCC) Autoignition Temperature: N/A deg F (CC)

Explosion Limits: Lower: N/A vol.4: Not Tested

Upper: N/A vol. vo

Extinguishing Media:

Choose extinguishing media suitable for the surrounding materials, such as water spray, dry chemical, alcohol foam or carbon dioxide. Unsuitable Extinguishing Media:

No restrictions on media based on knowledge of this material. Fire Fighting Instructions:

Water spray should be used to cool fire exposed containers and to disperse un-ignited vapors. Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when material has ignited or becomes involved in a fire. Try to remove material containers from fire area if can be accomplished without risk to personnel.

Evacuate area and fight fire from a safe distance. Call your local fire department. Wear positive pressure, breathing apparatus and protect eyes and skin. Use water to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Fire media run-off can damage the environment. Dike and collect media used to fight fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills:

For incidential spills and leaks, wear adequate personal protective equipment, see Section 8 (Exposure & Personal Protection). Spills should be contained by, and covered with suitable absorbant material and removed for disposal. Dispose of according to local and national regulations. Prevent from entering into soil, waterways and groundwater.

Large Spills:

For larger spills, requiring emergency response, neoprane boots and respiratory protection may also be required. Follow OSHA regulations and NIOSH recommendations for respiratory protection (see 29 CFR 1910.134 and NIOSH pub. 87-108) and emergency response (see 29 CFR 1910.120). Hold in properly labeled DOT-approved waste container. Dike large spills to minimize the spill area. Material can cause environmental damage.

SECTION 7 - HANDLING / STORAGE

Handling:

Avoid contact with eyes, skin or clothing. Avoid breathing mist or vapor. Do not swallow. Wear chemical safety goggles and neoprene gloves and apron. Wash thoroughly after handling. Keep container closed when not in use. Use only with adequate ventilation.

Storge:

Store in a cool, dry, well-ventilated area. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Ventilation:

Good general ventilation should be sufficient for most processing operations. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. Ten (10) or more room air changes per hour containing a minimum of 15% fresh air will meet these requirements. Consult ASHRAE 62-1989 for further requirements.

Personal Protective Equipment

Respiratory Protection: If used under normal operating conditions and with adequate ventilation, respiratory protection is not required. However, refer to OSHA 29 CFR 1910.13

Skin Protection: Naoprene gloves and apron Eye Protection: Chemical safety goggles

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, pale yellow, aqueous liquid

Odor: No odor Change in Physical State:

Boiling Point: >100 deg C Melting Point: N/D deg F

Specific Gravity: 1.10 Water=1 Vapour Pressure: ~15 mmHg © 20C

Viscosity: N/A Solubility in Water: Complete pH Value: 3.0-3.4

VOC (1bs/gal): 0.29 (USEPA Method 24)

SECTION 10 - STABILITY AND REACTIVITY

Hazardous Polymerization:

Hazardous polymerization WILL NOT occur if product is used and stored as directed. Product is stable if used and stored as directed.

Hazardous Decomposition Products:

Oxides of Sulfur, oxides of Carbon Materials and Conditions to Avoid:

Keep away from excess heat. Avoid contact with strong exidizers, strong acids and strong bases.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Information

LDSG (oral, rat): >5000 mg/kg

Acute Overexposure:

Skin, eye, mucous membrane and respiratory tract irritant.

Chronic Overexposure:

No other effects besides those associated with acute exposure.

Ingredient information:

No other information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Data: No Data Available Chemical Fate Data: No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Hazardous Waste Characteristic:

None

Recommendation:

Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Discharge of processing effluent to the sewer may require a permit. DO NOT discharge effluent solutions to septic systems.

SECTION 14 - TRANSPORTATION INFORMATION

Ground Shipping Information

Proper Shipping Name: Chemicals, N.O.I., Not D.O.T. regulated.

Hazard Class: None
UN/NA Number: None
Packing Group: None

Air (ICAO/IATA) Shipping Information

Proper Shipping Name: Chemicals, N.O.I., Not D.O.T. regulated.

Hazard Class: None
UN No: None
Packing Group: None
Subsidiary Risk: None
UN/DOT Labels Needed: None

Passenger Aircraft Packing Instructions: N/A Max: N/A Cargo Aircraft Packing Instructions: N/A Max: N/A International Maritime Organization (IMO) Additional Shipping Class:

IMDG Code: Not Applicable
Amdt. Code: Amdt. N/A
HTS Code: Not Applicable

Product is labeled in accordance with US D.O.T. 49 CFR.

Further information:

Please call (800) 471-3854 for further D.O.T. information.

SECTION 15 - REGULATORY INFORMATION

**Note: The ingredient information listed in this section is provided for reporting requirements as dictated by USEPA, state and local regulation. If

ingredient is listed in this section but not in Section 2, then the concentration of this ingredient is below de minumis (less than 0.1%).

U.S. FEDERAL REGULATIONS:

- 313 SARA Title III Section 313 (40 CFR 372 -- Toxic Release Inventory)
- 355 SARA Ticle III Section 302 (40 CFR 355 -- Extremely Hazardous Substance)
- 302 SARA Title III Section 304 (40 CFR 302 -- Hazardous Substance List)
- CWA Clean Water Act Priority Pollutants List
- CAA Clean Air Act 1990 Hazardous Air Contaminants
- HAP Clean Air Act HON Rule HAPs

Gum Arabic 9000-01-5 N N Starch Phosphate 11120-02-8 N N Starch Derivative 9049-76-7 N N Water 7732-18-5 N N	N	И	H	и
	N	И	H	и
	N	И	N	и

TSCA 12(b) Export Notification
CAS NUMBER CHEMICAL NAME
107-21-1 ETHYLENE GLYCOL

TOXICITY INFORMATION:

IRC1 - IARC Group I Human Carcinogens List

IRC2 - IARC Group 2 Human Carcinogens List (limited human data)

IRC3 - IARC Group 2B Human Carcinogens List (sufficient animal data)

NTP • NTP Known Carcinogens List OSHA • OSHA Known Carcinogens List

Ingredients	CAS Number	IRCL	IRC2	IRC3	NTP	DSHA
Benzyl Alcohol	100-51-6	N	И	N	N	21
Ethylene Glycol	107-21-1	N	N	Ħ	н	31
Gum Arabic	9000-01-5	N	N	11	N	N
Starch Phosphate	11120-02-8	N	H	14	N	\$1
Starch Derivative	9049-76-7	N	н	11	N	N
Water	7732-18-5	N	H	N	H	11
Water	1/32-10-3					

STATE REGULATIONS:

FL = Florida Hazardous Substance List MA = Massachusetts Right-To-Know List MI = Michigan Critical Materials List MN = Minnesota Hazardous Substance List NJ = New Jersey Right-To-Know List PA = Pennsylvania Right-To-Know List

Ingredients	CAS Number	PA	NJ	HN	MI	MA	FL
Benzyl Alcohol	100-51-6	Y	N	Y	N	Y	Y
Ethylene Glycol	107-21-1	Y	Y	Y	N	Y	Y
Gum Arabic	9000-01-5	N	Y	N	N	N	И
Starch Phosphate	11120-02-8	N	24	11	N	N	N
Starch Derivative	9049-76-7	N	21	И	N	N	31
Water	7732-18-5	И	И	N	N	24	Ħ

The following information is required by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 or Proposition 65. This regulation does not address di minimus levels; therefore, even trace amounts of chemicals included on these lists must be noted with the "Safe Harbor" wording.

WARNING: Known to the State of California to cause cancer:

CAS NUMBER CHEMICAL NAME
123-91-1 1,4-DIOXANE
75-21-8 ETHYLENE OXIDE

WARNING: Known to the State of California to cause developmental toxicity;

CAS NUMBER CHEMICAL NAME 64-17-5 ETHYL ALCOHOL

WARNING: Known to the State of California to cause female reproductive effects

CAS NUMBER CHEMICAL NAME 75-21-8 ETHYLENE OXIDE

WARNING: Known to the State of California to cause male reproductive effects:

The following designation is used only for those facilities that have air permits in nonattainment areas for ozone:

Non-Photochemically Reactive

SECTION 16 - OTHER INFORMATION

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

MSDS4407



Fog Shield XP

MATERIAL SAFETY DATA SHEET

Effective Date: 3/14/02

Supersedes: 1/30/02

Page 1 of 6

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Fog Shield XP

77, 8577

For information:

1-800-553-5340

Product Code:

For Emergency:

1-800-535-5053

Chemical Family: NA

Manufacturer: Address:

Bausch & Lomb Incorporated

1400 N. Goodman Street Rochester, New York 14603

Section 2: COMPOSITION / INFORMATION ON INGREDIENTS

				CCUP	ATION	IAL EX	POSU	RE LIM	TS / G	UIDEL	NES		
CAS#	COMPONENT NAME	% W/V	OSHA	PEL	ACG	H TLV	NIOS	H REL	IREI	LAND /STEL	H	SE /STEL	UNITS
67-63-0	(sopropyl Alcohol	11	400	NE	400	500	400	500	400	500	400	500	bbw
Trade Secret	Silicones	< 6	NE	NE	NE	NE	NE	NE	NE	NE	NE	ΝE	NA
	Other Non-Hazardous Ingredients	> 80	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
TOTAL		100											

N/E Not Established TWA: 8-Hour Time-Weighted Average

N/A: Not Applicable

ACGIH: American Conference of Governmental Industrial Hygienists NtOSH: National Institute for Occupational Safety & Health

OSHA Occupational Safety & Health Administration

PPM Parts Per Million

STEL Short-Term Exposure Limit

C: Ceiling Limit

REL Recommended Exposure Limit

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, water-like liquid. Avoid eye contact. May cause skin irritation or dryness. Ingestion may cause gastric and intestinal irritation. Seek medical attention.

Fog Shield XP

MATERIAL SAFETY DATA SHEET

Page 3 of 6

Section 4: FIRST AID MEASURES (cont.)

INHALATION:

Normal use of this product does not pose an inhalation hazard. Should respiratory tract imitation develop, discontinue use and remove to fresh air. Get medical attention if irritation or other symptoms develop or persist.

Section 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point:

108°F Closed-Cup

Method:

ASTM Method D3828-98

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical powder, appropriate foam or water fog.

HAZARDOUS COMBUSTION PRODUCTS:

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

SPECIAL FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus and full protective gear to prevent contact with skin and eyes.

Section 6: ACCIDENTAL RELEASE MEASURES

Large Spill (≥ 4 liters):

Shut off all sources of ignition. Evacuate immediate area. Isolate hazard area. Prevent from entering drains and sewers. Wear suitable protective eyewear, clothing, respiratory protection, rubber boots and rubber gloves (refer to Section 8). Cover with vermiculite or other suitable inert material, pick up and place in closed containers. Transport outdoors and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Small Spill (< 4 liters):

Isolate hazard area. Prevent from entering drains and sewers. Wear suitable protective eyewear, clothing, respiratory protection, rubber boots and rubber gloves (refer to Section 8). Cover with vermiculite or other suitable inert material, pick up and place in closed containers. Transport outdoors and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Dispose of in accordance with Section 13.

Fog Shield XP

MATERIAL SAFETY DATA SHEET

Page 5 of 6

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES:

Appearance / Physical State:

Clear, water-like liquid

Odor:

Slight alcohol odor

CHEMICAL PROPERTIES:

Boiling Point:

Not Determined

Meiting Point:

Not Applicable

Vapor Pressure:

Not Applicable

Vapor Density:

Not Applicable

0.987

Solubility in Water:

Soluble

Specific Gravity (H2O = 1):

pH:

5-9

Freezing Point:

Not Determined

Molecular Weight:

Not Applicable, Mixture

Section 10: STABILITY AND REACTIVITY

GENERAL:

Stable under normal conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Keep away from heat, sparks, and flames.

HAZARDOUS POLYMERIZATION:

Does not occur

HAZARDOUS DECOMPOSITION:

None

Section 11: TOXICOLOGICAL INFORMATION

RTECS No.:

NT8050000

Isopropyi Aicohoi

Toxicity Data:

ORL-RAT

LD50: 5045 MG/KG LC50: 16000 PPM/8H

IHL-RAT SKN-RBT

LD50: 12800 MG/KG

Irritation Data:

EYE-RBT

100 MG SEV

SKN-RBT

500 MG (MILD)

NOTE: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

Section 12: ECOLOGICAL INFORMATION

No specific ecological data are available for this product.

FUJIFILM

MATERIAL SAFETY DATA SHEET

Finished Goods Catalog 55614040 - LP-DIME LASER FLATE DEV. WORK. SOL, REP. 212.5CAL

Manufacturer Name FUJI PHOTO FILM USA, INC.

SECTION 1 - COMPANY IDENTIFICATION

PUJI PHOTO FILM USA, INC. 200 Summit Lake Drive Valhalia, NY 10595-1356

CHEMTREC |24 HRS) EMERGENCY NO: Inside US & Canada: 1-808-474-9300 Outside US & Canada:1-701-527-3887 MEDICAL (24 HRS) EMERGENCY NO Prosat: 1-877-935-7387 HSDS FAXBACK (24 HRS): 1-688-154-1854 NON-EMERGENCIES: EMS Hotling: 1-800-473-3854 General Information 1-914-769-8100

MSDS ID: SJ192P

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

TIME HEIGHTED AVERAGES Ingredience CAS Number | Nt. 1 OSHA PEL ACDIN TLV Folyoxyechylene Naphthylether 18545-57-4 3-70 (mg/m3) (mg/m3) MIC Water 7732-18-5 80-1009 NE NE

HE-Not Established: STEL-Short Term Exposure Limit: C-Ceiling Limits; PEL-PEL-Permissible Exposure Limics; TLV-Threshold Limic Values

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Clear, light scraw, aqueous liquid Oder : No odor

DANGER: CORROSIVE

Severe irritant to skin and eyes. May cause serious damage to eyes. Prolonged or repeated skin concact may cause allergic reaction and dermatities Keep away from excess heat. Avoid contact with strong oxidizers, strong acids

Wear equipment to protect eyes, skin and respiratory tract. Dike or absorb spills to keep meterial and run-off from entering sever or waterways. Use water to cool containers and disperse wapors.

FUJI PHOTO FILM USA, INC. - S5814040 - LP-D3WR LASER PLATE DEV. WORK. SOL. REP. 2X2.5GAL

Box may contain multiple containers having multiple components. Consult all

HHIS: Health: 3 Flammability 0 Reactivity 0 Protection: C MTPA: Health: 3 Planmability: 0 Reactivity: 0 Spec. Haz.: CORA

Hamard Rating: 0 - Hinimal 1 - Slight 2 - Hoderate 3 - Serious 4 - Severe A - Gloves B - Gloves & Goggles C - Gloves, Goggles & Apron D - Face Shield, Gloves, Goggles & Apron

UN NO: UN1814

DOT GUIDE: ERG Guide 154

Potential Health Effects

Sklar Contact causes severe irritation. May cause serious damage to eyes. Even

Inhalation: Severe irritant to respiratory tract and mucous membranes.

Ingestion: May cause serious damage to digestive tract.

Conditions aggravated by exposure:

None expected except those associated with acute effects.

Ηŧ

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush with COCL water for 15 minutes. Call a physician. Skin Contact: In case of skin contact: immediately flush with cool water for 15 minutes. Call a physician.

Indestion:

In case of ingestion; seek immediate medical attention. Inhalation: Immediately remove victim to fresh air. Call a physician for further

recommendations.

SECTION 5 - FIRE FIGHTING MEASURES

Planable Properties

Flash Point: None ded F (TCC) Autoignition Temperature: N/A deg F (CC) Explosion Limits: Lower: N/A vol.t: Not Tested

Upper: N/A

saibeM paidelupaitsS

Choose extinguishing media suitable for the surrounding materials, such as water spray, dry chemical, alcohol foam or carbon dioxide. Unsuitable Extinguishing Media:

vol.4:

No restrictions on media based on knowledge of this material.

Pire Fighting Instructions:

Water spray should be used to cool fire exposed containers and to disperse un-ignited vapors. Use HICSH/MSHA approved positive pressure self-contained breathing apparatus when material has ignited or becomes involved in a fire. Try to remove meterial containers from fire area if can be accomplished without risk to personnel.

Evacuate area and fight fire from a safe distance. Call your local fire department. Wear positive pressure, breathing apparatus and protect eyes and skin. Use water to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Fire media run-off can damage the environment. Dike and collect media used to fight fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For incidential spills and leaks, wear adequate personal protective equipment, see Section 8 (Exposure & Personal Protection) | Spills should be contained by, and covered with sustable absorbent material and removed for



FUJI PHOTO FILM USA, INC. - 55814040 - LP-D3WR LASER PLATE DEV. WORK, SOL. REP. 2X2.5GAL

disposal. Dispose of according to local and national regulations. Prayent from entering into soil, waterways and groundwater. Large Spills:

For larger spills, requiring emergency response, neoprene boots and respiratory protection may also be required. Follow OSHA regulations and NIOSH recommendations for respiratory protection (see 29 CFR 1910 1)4 and NEOSE pub. 87-108) and emergency response (see 29 CFR 1910,120). Hold in properly labeled DOT-approved wasce container. Dike large spills to minimize the spill area. Hatorial can cause environmental damage.

SECTION 7 - HANDLING / STORAGE

Handling:

Avoid contact with eyes, skin or clothing. Avoid breathing mist or vapor. Do not swellow. Wear chemical safety goggles and neoprene gloves and apron. Wash thoroughly after handling. Keep container closed when not in use. Use only with adequate ventilation. Storge

Stors in a cool, dry, well-ventilated area. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Good general ventilation should be sufficient for most processing operations. Vent work area to ensure airborns concentrations are below the current occupational exposure limits. Ten (10) or more room air changes per hour containing a minimum of 15% fresh air will meet these requirements. Consult ASHRAE 62-1989 for further requirements. Personal Protective Equipment

Respiratory Protection: If used under normal operating conditions and with adequate ventilation. respiratory protection is not required. However, refer to QSHA 29 CFR 1910.13

Skin Protection Eye Protection:

Neoprene gloves and apron Chemical safety goggles

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, light straw, aquecus liquid Odor:

No oder Change in Physical State:

Boiling Poinc >100 deg C Helting Point: N/D deg F

Specific Gravity: 1.01 Vapour Pressure: Waterel -15 malig e 200 Viscosicy:

N/A Solubility in Water: Complete pH Value:

12.9 VOC (15s/gal): D (USEPA Method 24)

SECTION 10 - STABILITY AND REACTIVITY

Hazardous Polymerization:

Hazardous polymerization WILL NOT occur if product is used and stored as directed. Product is stable if used and stored as directed.

Hazardous Decorposition Products:

Oxides of Nicroges; Oxides of Carbon

Materials and Conditions to Avoid:

Keep away from excess heat. Avoid contact with strong exiditers, strong

Revision Date - 10/14/2002



FUJI PHOTO FILM USA, INC. - 55814040 - LP-DIWR LASZR PLATE DEV. WORK. SOL. REP. 2X2 SGAL

U.S. PEDERAL REGULATIONS

313 - SARA Title III Section 313 40 CFR 372 -- Toxic Release Inventory)

355 - SARA Title III Section 102 |40 CFR 355 -- Extremely Hazardous Substance)

302 . SARA Title III Section 304 (40 CFR 302 -- Hazardous Substance List)

CMA - Clean Water Act Priority Pollutants List

CAA - Clean Air Act 1990 Hazardous Air Contaminants

HAP - Clean Air Act - HCN Rule - HAPa

Ingrediente CAS Number 111 155 102 CHA CAA HAP Polyoxyethylene Naphthylether JS545-57-4 N Hater 7712-18-5 N

TSCA 12(b) Export Nocification ***None required****

TOXICITY INFORMATION:

IRC1 - IARC Group 1 Ruman Carcinogens List

IRC2 - IARC Group 2 Human Carcinogens List (limited human data)

IRCI - IARC Group 28 Human Carcinogens List (sufficient animal data)

HTP - HTP Known Carcinogens List

OSHA . OSHA Known Carcinogens List

Ingredients CAS Number IRC1 IRC2 IRC3 NTP CSHA Folyoxyethylene Haphthylether 35545-57-4 M 92 N Water 7732-18-5 М м ы N M

STATE REGULATIONS

FL - Florida Hazardous Substance List HA - Massachusetts Right-To-Know List HI - Hichigan Critical Materials List HG - Hinnesota Mazardous Substance List HJ - New Jarsey Right-To-Know List PA - Pennsylvania Right-To-Know List

Ingredients CAS Number PA NJ HN HI HA FL Polyoxyethylene Naphthylether 35545-57-4 M N H H Water 7732-18-5 N N N

The following information is required by the Stars of California's Safe Drinking Water and Toxic Enforcement Act of 1986 or Proposition 65. This regulation does not address di minimus levels: therefore, even trace amounts of chemicals included on these liste must be noted with the "Safe Harbor" wording.

WARNING: Known to the State of California to cause cancer:

****None Listed****

WARMING: Known to the State of California to cause developmental toxicity:

****None Listed****

MARNING Known to the State of California to cause female reproductive effects

···-Wone listed····

WARNING: Known to the State of California to cause male reproductive effects:

****None Listed****

The following designation is used only for those facilities that have air permits in nonattainment areas for orone; Non-Photochemically Reactive

SECTION 16 - OTHER INFORMATION

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



FUJI PHOTO FILM USA, INC. - 55814040 - LP-D3WR LASER PLATE DEV. WORK, SOL. REP. 2X2.5GAL

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Information LD50 (cral, rat): >2000 ng/kg Acute Overexposure: Severe irritant to skin and syes. Hay cause serious damage to eyes. Chronic Overexposure: Prolonged or repeated akin contact may cause allergic reaction and Ingredient information: No other information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Data: No Data Available Chemical Fate Data; No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Hazardous Waste Characteristic:

D002

Recommendation:

Dispose of conceminated product, empty containers and nuterials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Discharge of processing effluent to the sever may require a permit. DO NOT discharge effluent solutions to septic systems Macerial, if spilled, may exhibit "corrosive" hazardous waste

SECTION 14 - TRANSPORTATION INFORMATION

Ground Shipping Information Proper Shipping Name: Potassium Hydroxide, Solution Hazard Class В UN/NA Number: UNIE14 Packing Group: PGELL Air (ICAO/IATA) Shipping Information Proper Shipping Name: Potasetum Hydroxide, Solucion Hazard Clase:

UN No UN1814 Packing Group PGIII Submidiary Rink: Ноле UN/DOT Labels Needed | Corrosive

Passenger Aircraft Packing Instructions 819 (Y819) Hax: 5L (O.SL/

Cargo Aircraft Packing Instructions: International Maritime Organization (IMO) Additional Shipping Class. IMDG #214

Ando, Code: Amelt . 27-94. HTS Code: HTS#3707.90,4000.8

Product is labeled in accordance with US D.O.T. 49 CFR

Further information:

Please call (800) 473-3856 for further D.G.7 information.

SECTION 15 - REGULATORY INFORMATION

**Note: The ingredient information listed in this section is provided for reporting requirements as dictated by USEPA, state and local regulation If ingredient is listed in this section but not in Section 2, then the concentration of this ingradient is below de minumis (less than C 1%).

TO FUJIFILM

MATERIAL SAFETY DATA SHEET

Finished Goods Catalog

55614035 - LP-DIM DASER PLATE DEV. MORKING SOL'E (2X2.SGAL)

Hanufacturer Name FUJI PHOTO FILM USA, INC.

SECTION 1 - COMPANY IDENTIFICATION

FUJI PHOTO FILM USA, INC. 200 Summit Cake Drive Valhalia, NY 10595-1156 CHENTREC (24 HRS) EMERGENCY NO:
Inside US & Canada: 1-800-424-5100
Gutside US & Canada: 1-703-527-1887
MEDICAL (24 HRS) EMERGENCY NO:
PROBER: 1-877-935-7387
MSDS PAXBACK (24 HRS): 1-888-154-1854
NON-EMERGENCIES:
EMS Motline: 1-800-473-3854
General Information:1-914-789-8100

MSDS ID: S31eFF

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HT-Not Established; STEL-Short Term Exposure Limit; C-Gailing Limits; PEL-PETHISSIBLE Exposure Limits; TLV-Threshold Limit Values

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Clear, light straw, aqueous liquid

WARNING; CORROSIVE

Mildly irritating to skin
Corrosive to eyes. Prolonged or repeated skin contact may cause allergic reaction and dermatitie. Keep away from excess heat. Avoid contact with strong oxidizers, strong acids and atrong bases.

Wear equipment to protect eyes, skin and respiratory tract. Dike or absorb spills to keep material and run-off from entering sewer or waterways. Use water to cool containers and disperse vapors.

Box may contain mulciple containers having multiple components. Consult all

FUJI PHOTO FILM USA, INC. - SS814035 - LP-D3W LASER PLATE DEV. WORKING SOL'N (2X2.5GAL)

MSDSs.

HMIS: Health: 2 Planmability: 0 Reactivity: 0 Protection: C HFPA: Health: 2 Flammability: 0 Reactivity: 0 Spec. Haz.: None

Hazard Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe A - Gloves B - Gloves & Goggles C - Gloves, Goggles & Apron D = Face Shield, Gloves, Goggles & Apren

UN NO: None DOT GUIDE: ERG Guide 111

Potential Health Effects:

Skin: Contact may cause irritation. Even Hay cause sorious damage to eyes

Inhalation: Erritant to respiratory tract and mucous membranes. Ingestion: Ingestion of product may cause nauses and vomicing.

Conditions aggravated by exposure:

Hone expected except chose associated with acute affects. H

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush with COOL water for 15 minutes. Call a physician. Skin Contact: In case of skin contact; immediately flush with cool water for 15 minutes. Call a physician.

In case of ingestion; seek immediate medical attention. Ingestion: Inhalation.

Immediately remove victim to fresh air. Call a physician for further recommendations.

SECTION 5 - FIRE FIGHTING MEASURES

Flarmable Properties

Flash Point: Autoignition Temperature: N/A deg F (TCC) 100) Explosion Limits: Lower: N/A vol.4:

Not Testad Upper: H/A vol.4:

Extinguishing Media:

Choose extinguishing media suitable for the surrounding materials, such as water spray, dry chemical, alcohol foam or carbon dickide. Chauttable Extinguishing Media:

No restrictions on media based on knowledge of this material.

Fire Fighting Instructions:

Macer apray should be used to cool fire exposed centainers and to disperse un-ignited vapors. Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when material has ignited or becomes involved in a fire. Try to remove material containers from fire area if can be accomplished without risk to personnel.

Evacuate area and fight fire from a safe distance. Call your local fire department. Wear positive pressure, breathing apparatus and protect eyes and skin. Use water to cool fire-exposed containers, to protect personnel and to disperse vapore and spills. Fire media run-off can damage the environment. Dike and collect media used to fight fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills:

For incidential spills and leaks, wear adequate personal protective equipment, see Section & (Exposure & Personal Protection). Spills should be contained by, and covered with suitable absorbent material and removed for disposal. Dispose of according to local and macional regulations. Prevent

FUJI PHOTO FILM USA, INC. - 55814035 - LP-D3W LASER PLATE DEV. WORKING SOL'N (2X2.5GAL)

from entering into soil, waterways and groundwater. Large Spilla:

For larger spills, requiring emergency response, neoprems boots and respiratory protection may also be required. Follow USHA regulations and NIOSH recommendations for respiratory protection (see 29 CFR 1910.134 and MIOSH pub. 87-108) and energency response (see 29 CFR 1310.120). Hold in properly labeled DOT-approved waste container. Dike large spills to minimize the spill area. Material can cause environmental damage.

SECTION 7 - HANDLING / STORAGE

Avoid contact with eyes, skin or clothing, Avoid breathing mist or vapor. Do not swallow. Wear chemical safety goggles and neoprene gloves and apron. Wash thoroughly after handling. Keep container closed when not in use. Use only with adequate ventilation. Scarges

Store in a cool, dry, well-ventilated area. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Ventilation:

Good general ventilation should be sufficient for most processing operations. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. Ten (18) or more room air changes per hour containing a minimum of 15% fresh air will meet these requirements. Consult ASHRAE 62-1909 for further requirements. Personal Protective Equipment

Respiratory Protection: If used under normal operating conditions and with adequate ventilation. respiratory protection is not required. However, refer to OSHA 29 CFR 1918.1]

Skin Protection: Eye Protection:

Neoprene gloves and apron Chemical safety goggles

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, light straw, aqueous liquid Odor: No oder Change in Physical State: Boiling Point: >100 deg C Melting Point: N/D deg F Specific Gravity: 1.01 Water-1 Vapour Pressure: -15 earlig @ 200 Viscosity: N/A Solubility in Water: Complete pH Values 12.1 VOC (lbs/gall) 0 (USEPA Hechod 24)

SECTION 10 - STABILITY AND REACTIVITY

Hasardous Polymerization:

Hazardous polymerization WILL NOT occur if product is used and stored as directed. Product is stable if used and stored as directed. Hazardous Decomposition Products:

Oxides of Mitrogen, Oxides of Carbon

Materials and Conditions to Avoid

Keep away from excess heat. Avoid contact with strong oxiditers, strong acids and strong bases.

FUJI PHOTO PILM USA, INC. - 55814035 - LP-D3W LASER PLATE DEV. WORKING SOL'N (2X2.5GAL)

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Information CDSO (oral, rat) / >2000 arg/kg Acute Gverexposure: Mildly irritating to skin. Corrosive to eyes. Chronic Overexposure: Protonged or repeated skin contact may cause allergic reaction and Ingredient information: No other information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Data: No Data Available Chemical Pate Data: No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Hazardous Waste Characteristic:

Recommendation:

Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Discharge of processing effluent to the sewer may require a permit. Do NOT discharge effluent solutions to septic systems.

SECTION 14 - TRANSPORTATION INFORMATION

Ground Shipping Information Proper Shipping Name: Chemicals, H.O.I., Not D.O.T. regulated. UN/NA Number None Packing Group: Air (ICAO/IATA) Shipping Information Hone Proper Shipping Name: Chemicals, N.O.I., Not D.O.T. regulated. UN No: None Packing Groups None Subsidiary Risks None UN/DOT Labels Needed: None Passenger Aircraft Packing Instructions: N/A Cargo Aiscraft Packing Instructions: HAKE H/A International Maritime Organization (IND) Additional Shipping Class: Not Applicable Andt. Code: Andt. N/A RTS Code: Product is labeled in accordance with US D.O.T. 49 CFR. Not Applicable Purcher information:

Please call [800] 473-3854 for further D.O.T. information.

SECTION 15 - REGULATORY INFORMATION

**Note: The ingradient information listed in this section is provided for reporting requirements as dictated by USEPA, state and local regulation. If ingredient is listed in this section but not in Section 2, then the concentration of this ingredient is below de minumis (less than 0.19).

U.S. FEDERAL REGULATIONS:

311 - SARA Title III Section 313 (40 CFR 372 -- Toxic Release Inventory)

FUJI PHOTO FILM USA, INC. - S5814035 - LP-D3W LASER PLATE DEV. WORKING SOL'N (2X2.5GAL)

355 - SARR Title III Section 102 (40 CFR 315 -- Extremely Hazardous Substance)

302 - SARA Title III Section 306 140 CFR 302 -- Hazardous Substance Lists

CMA - Clean Mater Act Priority Follutants List

CAA - Clean Air Act 1990 Hazardoue Air Contaminants

HAF - Clean Air Act - HON Rule - HAPs

Ingredienta Ingredienta
Polyoxyethylene Naphthylether 35545-57-4 N CAS Number 311 355 302 CHA CRA HAP н N 7732-18-5 м ы ы

TSCA 12 | b | Export Notification ** *None required ***

TOXICITY INFORMATION:

IRC1 - IARC Group 1 Human Carcinogene Liet

IRC2 - IARC Group 1 Human Carcinogens List (limited human data)

TRC1 - TARC Group 18 Human Carcinogens List (sufficient animal data)

HTP - HTP Known Cardinogens List

CSRA = OSRA Known Carcinogens List

Ingredience CAS Number IRC1 IRC2 IRC3 HTP OSHA Folyoxyathylene Naphthylether 15545-57-4 N H H H 7732-18-5 н

STATE RESULATIONS:

FL - Florida Hazardous Substance List MA - Hassachusetts Right-To-Know List HI - Michigan Critical Materials List HN - Minnesota Hazardous Substance List NJ = New Jersey Right-To-Know List PA = Pennsylvanta Right-To-Know List

TH AN IN IN IN AN IN CAS Number Polyomyethylene Naphthylether 15545-57-4 и и и и и Water 7732-16-5 N N N N N

The following information is required by the State of California's Safe Orinking Water and Toxic Enforcement Act of 1986 or Proposition 65. This regulation does not address di minimus levels; therefore, even trace amounts of chemicals included on these lists must be noted with the "Safe Herber" warding.

WARNING: Known to the State of California to cause cancer:

****None Liscad****

MARHING: Mnown to the State of California to cause developmental toxicity:

CAS NUMBER CHEMICAL HAME

7439-97-6 HERCURY

WARNING: Known to the State of California to cause female reproductive effects

****None listed****

WARNING: Known to the State of California to cause male reproductive effects:

""""None listed ****

The following designation is used only for those facilities that have air permits in nonettainment areas for ozone: Non-Photochemically Reactive

SECTION 16 - OTHER INFORMATION

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to sefeguard workers and the environment

Press area Chemicals

- Cleaning solvents
- Compounds
- Printing Inks
- Lubricants

Material Safety Data Sheet

[Home] [Manufacturer] [Part Number] [NSN] [Help]

SECTION I - Material Identity

Item Name ROTARY SCREW COMPRESSOR LUBRICANT & COOLANT	
Part Number/Trade Name AEON 9000 SP-28H109, 28H110 National Stock Number 9150PAEON9000SB	
CAGE Code	
Part Number Indicator A	
MSDS Number	
HAZ CodeB	

SECTION II - Manufacturer's Information

Manufacturer Name GARDNER DENVER
Street 1800 GARDNER EXPRESSWAY
City QUINCY
StateIL
CountryUS
Zip Code
Emergency Phone

MSDS Preparer's Information

	PRODUCT	SPECIALIST
NSDS Preparer Name	SKODOCT	SEECTURE
Date MSDS Prepared/Revised	00JAN97	
Active Indicator	N	

Alternate Vendors

Vandor #	1	CAGE	63	24	1
----------	---	------	----	----	---

SECTION III - Physical/Chemical Characteristics

Boiling Point>300 F
Vapor Pressure
Vapor DensityN/A
Specific Gravity
Evaporation Rate
Solubility in Water INSOLUBLE
Solubility in water
Percent Volatiles by Volume0%
Container Pressure Code4
Temperature Code8
Product State Code

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method......UNK

Extinguishing Media..... DRY CHEMICAL, CO2, FOAM, WATER SPRAY,

CARBON DIOXIDE

Special Fire Fighting Procedures..... ADDITION FO WATER/FOAM TO BURNING LIQUID

MAY CAUSE FROTHING.

Unusual Fire/Explosion Hazards...... CAONTAIN SPILL, COVER W/EXTINGUISHING

AGENT. USE WATER SPRAY TO CCOL FIRE-EXPOSED CONTAINERS AND PROTECTIVE SCREEN. DO NOT POINT SOLID WATER DIRECTLY INTO

OIL.

SECTION V - Reactivity Data

Stability..... YES

Stability Conditions to Avoid..... EXCESSIVE HEAT

Materials to Avoid...... STRONG OXIDIZING AGENTS

Hazardous Decomposition Products..... ANALOGOUS COMPOUNDS EVOLVE CO2, CO AND

OTHER UNIDENTIFIED FRAGMENTS WHEN BURNED.

Hazardous Polymerization...... NO

Polymerization Conditions to Avoid..... WILL NOT OOCUR.

SECTION VI - Health Hazard Data

Route of Entry: Skin.....YES

Route of Entry: Ingestion......YES

Route of Entry: Inhalation..... YES

Health Hazards - Acute and Chronic..... SKIN: MILDLY IRRITATING.

PROLONGED/REPEATED CONTACT MAY CAUSE DERMATITIS. INGEST: NAUSEA, DIARRHEA.

Symptoms of Overexposure..... SEE ABOVE

Emergency/First Aid Procedures..... SKIN: REMOVE CONTAMINATED CLOTHING, WASH W/SOAP & WATER. EYES: COPIOUS WARM WATER

FLUSH-15 MIN. PHYSICIAN ASSESSMENT IF EYES ENFLAMED. INHALE: EVACUATE TO FRESH AIR. APPLY CPR IF NEEDED. ADMINISTER OXYGEN IF AVAIL. IF CPR IS REQUIRED, PHYSICIAN ASSESSMENT MANDATORY. INGEST: DO NOT INDUCE VOMITING. FORCE FLUIDS, ACTIVATED

CHARCOAL TABLETS.

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled..... CONTAIN SPILL. ABSORB W/INERT ABSORBANT. SCOOP UP USED ABSORBANT & RAGS INTO DRUMS.

Waste Disposal Method..... DISPOSE OF IN ACCORDANCE TO ALL FEDERAL,

STATE AND LOCAL LAW.

Handling and Storage Precautions..... STORE IN CCOL, WELL-VENTILATED AREA. WASH HANDS AFTER HANDLING AND BEFORE EATING. AVOID INHALATION AND SKIN CONTACT. LAUNDER

WORK CLOTHES FREQUENTLY.

Other Precautions	DISCARD SATURATED LEATHER ARTICLES.
SECTION VIII - Control Measures	
Respiratory Protection	USE IN WELL VENTILATED AREA.
Ventilation	GENERAL
Protective Gloves	NOT REQUIRED, BUT RECOMMENDED
	OIL-RESISTANT CLOTHING IF DIRECT CONTACT W/LIQUID LIKELY
	WASH HANDS AFTER HANDLING & BEFORE EATING. AVOID INHALATION & SKIN CONTACT. LAUNDER WONK CLOTHES FREQUENTLY.
Supplemental Health/Safety Data	DISCARD SATURATED LEATHER ARTICLES.
Disposal Code	0
SECTION IX - Label Data	
Protect Eye	
Protect Skin	
Protect Respiratory	
Chronic Indicator	
Contact Code	
Fire Code	
React Code	
React Code	
SECTION X - Transportation Data	where the control of
Container Quantity	. 5
Unit of Measure	. GL
SECTION XI - Site Specific/Reporting Info	rmation
Volatile Organic Compounds (P/G)	
Volatile Organic Compounds (G/L)	. 0
SECTION XII - Ingredients/Identity Information	
Ingredient #	. 01
Ingredient Name	. SYNTHETIC HYDROCARBON/ESTER BLEND
CAS Number	. 68037014
Proprietary	
Percent	
OSHA PEL	. DEG/EIJ
ACGIH TLV	
Ingredient #	DECOMER ANTIOXIDENTS.RUST
Ingredient Name	INHIBITORS, DYE, MFSE

CAS Number 7732185
ProprietaryNO
Percent
OSHA PELN/A
ACGIH TLVN/A
Recommended Limit

NOTICE: For additional information, contact BIOENVIRONMENTAL

HMMS Intranet - 24 Oct 2006 08 20 - web_msds display - Visit the Official HMMS Website at www.hmms.com

GRP 7977915930

T-136 2 35/37 F-534

HMIS CODES: H F R P

PRODUCT NAME: AEROSOL ANTI-STATIC SPRAY
PRODUCT CODE: EXP-221

1 4 0 A

EXERCISE SECTION I - MANUFACTURER IDENTIFICATION EXECUTED

MANUFACTURER'S NAME: VARN PRODUCTS

ADDRESS: 905 SOUTH WESTWOOD, ADDISON, ILLINOIS 60101

EMERGENCY PHONE: (800) 424-9300 INFORMATION PHONE: (800) 336-8276
DATE REVISED: 04-08-93 NAME OF PREPARER: VARN PRODUCTS CO.

REASON REVISED : NEW PRODUCT INTRODUCTION

======= SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

		OCCUPAT	TOHAL EXPOSUR	E EEHETÜ	VAPOR PRE	BURE	Weight
MAZARDOUS COMPONENTS	CAS HUMBER	OSRA PEL	WCCIR IIA	OTHER	ere Rg f		
ETHANGL	64-17-3	H/E	1000 ppm		94.0	700	10
N-PENTANE	107-66-0	400 ppm	600 ppts	750ppmSTEL	400.0	65P	35
LIGHTING PRITAGLEUM GAS	68476-85-7	1000 ppm	1000 pps		760.0	667	5.5

*** No toxic chemical(s) subject to the reporting requirements of section 11) of Title III and of 40 CFR 372 are present. ***
ALL INGREDIENTS LISTED IN THE EPA TECA INVENTORY. CONTAINS NO GIONE DEPLETING SUBSTANCES.

========= SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ==========

BOILING POINT: N/A SPECIFIC GRAVITY (H20=1): 0.6

VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER

MATERIAL V.O.C.: 4.77 LB/GL (571 G/L)

SOLUBILITY IN WATER: SLIGHT

APPEARANCE AND ODOR: AEROSOL CAN; CLEAR LIQUID - ALCOHLIC ODOR

FLASH POINT: SEE ** METHOD USED: SECTION II FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.5% UPPER: 19.0%

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

KEEP CONTAINERS COOL. USE ENTELDING TO PROTECT PERSONNEL AGAINST BURSTING, RUPTURING OR VENTING CONTAINERS. WATER MAY HOT BE EFFECTIVE TO EXTINGUISE FIRE. USE WATER EPRAY TO COOL FIRE EXPOSED CONTAINERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS

AT ELEVATED TEMPERATURES (OVER 130 Deg P) CONTAINERS MAY VENT, RUPTURE OR BURST.

^{**} TELS PRODUCT IS CONSIDERED EXTREMELY PLANMABLE AS DESCRIBED IN LECFR 1500.45.

T-136 2 05/37 F-534

TERRESPONDENCE SECTION V - REACTIVITY DATA TERRESPONDENCE

STABILITY: STABLE CONDITIONS TO AVOID AVOID EXCESS SEAT LABOVE 130 Deg F1.

INCOMPATIBILITY (MATERIALS TO AVOID) AVOID MIXING WITH STRONG OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
BURNING WILL PRODUCE OXIDES OF CARBON, ADDITIONAL TOXIC CERTICALS MAY BE FORMED IN SHALL AMOUNTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

ERRENDEZEMBRESCHE SECTION VI - HEALTH HAZARD DATA FREEDEZEMBRESCHER

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
EXCESSIVE VAPOR CONCENTRATIONS AND ATTAINABLE. OVEREXPOSURE HAY IRRITATE THE MOSE, THROAT, LUNGS AND CAUSE CENTRAL
NERVOUS SYSTEM DEPRESSION WITH SYMPTOMS SUCE AS DROMBINESS, DISSINGES AND UNCONSCIOUSEESS.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE PROLONGED SKIN CONTACT MAY LEAD TO DRYING, IRRITATION AND DERMATITIS. EYE CONTACT MAY CAUSE SURHING AND IRRITATION.

SRIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE A SINGLE, PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ASSORBED TEROUGH THE SKIN IN MADIFUL AMOUNTS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE INGESTION MAY PRODUCE GASTRO-INTESTINAL IRRITATION, VONITING AND POSSIBLE DAMAGE TO VITAL ORGANS. FOLLOW PIRST AID PROCEDURES.

HEALTH HAZARDS (ACUTE AND CHRONIC)
REPEATED OR ASUSIVE SPEATEING OF CONCENTRATED VAPORS MAY EFFECT PULHONARY, CARDIOVASCULAR, CENTRAL MERVOUS SYSTEM AND
CAUSE LIVER, LUNG AND KIDNEY EFFECTS. REPEATED SKIN CONTACT WILL DRY OUT AND CRACK SKIN.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO TRIE PRODUCT CONTAINS NO INORM CARCINOGENS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE SKIN CONTACT MAY AGGRAVATE PRE-EXISTING DERMATITIS. INVALATION MAY AGGRAVATE PRE-EXISTING ASTRONALIZE CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES

EYES: NOLD EYELID OPEN AND PLUEN WITH WATER FOR IS NIMULES. CONTACT A PHYSICIAN IP IRRITATION PERSISTS. SKIN: WASH WITH SDAP AND WATER. INDESTION: CONTACT LOCAL POISON CONTROL CENTER OR PHYSICIAN IMMEDIATELY. INMALATION: MOVE TO FRESH AIR. CIVE OXYGEN IF BREATHING IS LABORED. Jul-13-1 13:33an Prom-4MERICAN PAPER CORP 7877815930 7-136 P.07/07 P-534

======= SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ======

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

ELIMINATE ALL IGNITION SOURCES. SOAR UP NATURIAL WITH ASSORBANT, TRANSFER INTO A GLOSIO CONTAINER FOR LATER DISPOSAL. ATROSOL PROPELLENTS ARE EXTREMELY FLANMABLE.

WASTE DISPOSAL METHOD

DO NOT PUNCTURE OR INCINERATE. WHEN CONTENTS ARE DEPLETED CONTINUE TO DEPRESE BUTTON UNTIL ALL GAS IS EXPELLED.
DISPOSE OF CONTAINERS IN ACCORDANCE WITH LOCAL, STATE AND PEDERAL REGULATIONS. CONTACT A LICENSED MAIARDOUS WASTE MAULEN
FOR MORE IMPORMATION.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP AWAY FROM SUNLIGHT, EXCESS HEAT, AND SOURCES OF IGNITION. STORE AT TEMPERATURE BELOW 100 Deg 9. STORE AS A LEVEL 1 AEROSOL (MFPA 308). AVOID SKIN CONTACT, AVOID SREATHING VAPORS.

OTHER PRECAUTIONS

MEAN PROPER PERSONAL PROTECTIVE EQUIPMENT AND KEEP AWAY FROM SPARKS, FLAKES AND CTHER SOCICES OF IGHTTION.

CONTAINS NO CHENICALS FOUND ON THE CALIFORNIA PROPOSITION 65 LIST.
FOR AIR SKIPMENT: PROPER SHIPPING MAME: AEROSOL, UN NUMBER: UN1950, BAIAND CLASS: 2.1
FOR SURFACE SHIPMENT: PROPER SHIPPING MAME: COMMUNER COMMODITY, MAIAND CLASS: ORM-D

RESPIRATORY PROTECTION

WHEN CONCENTRATIONS ENGIND THE ISTABLISHED EXPOSURE LIMITS IN SECTION II, USE A RESPIRATOR WITH APPROPRIATE ORGANIC VAPOR CARTRIDGES (HIGH APPROVID).

VENTILATION

IF CURRENT VEHTILATION IS INADEQUATE TO MAINTAIN CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS IN SECTION II, ADDITIONAL VEHTILATION OR EXHAUST SYSTEMS HE REQUIRED. EXPLOSION PROOF ELECTRICAL SYSTEMS MUST BE USED.

PROTECTIVE GLOVES

FOR BRIEF CONTACT, NO PRECAUTIONS SHOULD BE NEEDED.

EYE PROTECTION

SAFETY CLASSES WITE SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

HEAR IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT.

WORK/HYGIENIC PRACTICES

WASH WITH BOAF AND WATER AFTER PRODUCT CONTACT WITH SRING

SECTION IX - DISCLAIMER SECTION IX - DISCLAIMER

DISCLAIMER

THE INFORMATION ON THIS MEDE IS BELIEVED TO BE ACCURATE AS OF THE DATE SHOWN IN SECTION I. SINCE THE USE OF THIS PRODUCT IS NOT IN THE CONTROL OF VARM, IT IS THE USER'S RESPONSIBILITY TO DETERMINE WHAT CONSTITUTES SAFE USAGE FOR A PARTICULAR PRODUCT. THIS FORM MAY BE REPRODUCTED IN QUANTITIES NECESSARY TO MEET YOUR REQUIREMENTS.



ALLIED PRESSROOM CHEMISTRY MATERIAL SAFETY DATA SHEET

		SECTI	ON 1 P	RODI	UCTI	DENTIFICA	ATION	AND US	SE.	
PRODUCT IDENTIFIE		LIED OF				esses			1-stight, 2- EALTH HA	moderate, 3-serious, 4-severe
MANUFACTURER S NAME AL	LIED PRE	SSROOM (CHEMISTRY	4		***		R	RE HAZAI	Y: 0
STREET ADDRESS 2040 LEE STREET, HOLLY	WOOD,	FLORIDA	, 33020, U	SA	·		P	720		E EQUIPMENT: C
OFFICE TELEPHONE FAX 954-92			-6462			ERGENCY TELEI 300 CHEMTRE		Safety Glasse	e (1	Protective Apron
THIS IS AN INDUSTRIAL PRODUCTS POSE AN II COMPLETE LABEL ANI	NT HEAL	TH RISK	. BEFO	RE USE	ALWAYS RE		DO NOT BR SKIN. DO N	EATHE VA	APORS. DO NOT GET IN EYES, N CLOTHING. DO NOT INGEST	
		SE	CTION	2-11	- NGREI	DIENT INF	ORM	ATION		
INGREDIENTS *These ingredients are subject to the re- requirements of SARA 111 and 40 CF	R 372	%		NUMBER		HAZARD DA	ATA			
Aliphatic petroleum distilia	ates	90 - 95	6474	2-47-8		SIH (TWA-TL)				
Dipropylene Glycol Methy Ether *	/I	0-5	3459	0-94-8	ACG	SIH (TWA-TL\ Skin	/) 100 pp	orn	·	
	AT L INC	PEDIENG	E ADE LI	CTCO III	THE HE	TOXIC SUBST	ANOT O			
	ACC INC	SKEDIEN						MIROL AC	(ISCA)	
PHYSICAL STATE	ODOR	AND APP			TER SOL	HYSICAL	DATA			SPECIFIC GRAVITY
LiQUID	Clear o	range liqu arbon odd	id, or		ulsifiable		Not app	licable	:	0.8
VAPOR PRESSURE (MM Hg) <3 0 @ 20°C	VAPOI (AIR=1 >1	R DENSIT	Y		PORATION AND A STATE OF THE PORATION OF THE PO	DN RATE e = 1)	BOILING 307 - 39	G POINT (°F)	V.O C.'s 97% by Mass 6 5 lb per Gallon (776 g/l)
				4 - FII	RE AN	D EXPLO	SION	DATA		
FLAMMABILITY YES INO []			UNDER CONDIT	IONS?	• Exces	s heat, sparks	and ope	en flame.		
EXTINGUISHING MEDIA CARBON DIOXIDE, DRY	CHEMI	CAL, UNI	VERSAL	FOAM.		SPECIAL FI Use self con				ES.
FLASHPOINT (°F) AND M 145 F by TCC	ETHOD)				ABLE LIMIT) : Unknown		WER FLA BY VOLU		
AUTOIGNITION TEMPER Not known	ATURE	(°C)	HAZAR Oxides	DOUS (of carbo	COMBU: on and h	STION PROD ydrocarbons	UCTS			
EXPLOSION DATA • NOT KNO	WN		SENSIT IMPACT		0	SENSITIVIT NO	Y TO ST	ATIC DISC	HARGE	
			SECT	ION S	5 - RE	ACTIVITY	DATA			
CHEMICAL STABILITY YES ■ NO □		CONDIT None	IONS CC	NTRIBI	UTING T	O HAZARDO	US POL	YMERISAT	ION	
INCOMPATIBILTY WITH (Strong oxidizing agents, st				ong bas	es					
HAZARDOUS DECOMPO incandescent material will hydrocarbons	SITION liberate	PRODUC carbon d	CTS: In co	ontact w arbon m	vith open onoxide	n flame or and	This	product is	not phot	ochemically reactive



ALLIED PRESSROOM CHEMISTRY MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFIER . ALLIED ORANGE WASH

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY

SKIN CONTACT

SKIN ABSORPTION .

EYE CONTACT #

INHALATION ...

ACUTE EXPOSURE TO PRODUCT: Inhalation - Inhalation can cause severe irritation of the respiratory tract, signs of central nervous system depression, dizziness nausea and headache. Eye - Will cause severe irritation, burning, redness and learing. Skin -Can cause irritation, redness burning and drying. Ingestion causes irritation of the digestive tract. Aspiration into the lungs can lead to pulmonary odema and chemical pneumonia which can prove fatal. Prolonged over-exposure can lead to narcosis, respiratory failure,

CHRONIC EXPOSURE TO PRODUCT: Prolonged skin contact may aggravate an existing dermalitis. Prolonged and repeated exposure to the pure solvent contained in this product has been reported to cause permanent brain and central nervous system

CARCINOGENICITY: No ingredient has been identified as carcinogenic or potentially carcinogenic by IARC, NTP, OSHA

TARGET ORGAN EFFECTS: Eyes, skin irritation

EMERGENCY FIRST AID PROCEDURES:

EYES: Flush with running water for at least 15 minutes. Seek medical attention.

SKIN: wash affected area with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: Remove victim to fresh air. Administer oxygen and/or artificial respiration if breathing difficulties occur. Seek medical

INGESTION: Do not induce vomiting. Material is an aspiration hazard, may enter lungs and cause lung damage. Seek immediate medical attention.

SECTION 7 - PREVENTATIVE MEASURES

GLOVES

RESPIRATOR: Use NIOSH approved SCBA in | EYE (SPECIFY)

Nitrile for incidental, non-immersion contact.

emergency situations or confined areas.

Splash proof goggles or face shield

CLOTHING : Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS): Use local exhaust or dilution ventilation as appropriate to control exposure below permissible levels. Vapors are heavier than air and will collect in low areas

LEAK AND SPILL PROCEDURE: Extinguish all sources of ignition. Provide maximum ventilation. Dike area to contain spill. Take precautions to prevent contamination of ground and surface waters. Recover spilled material using absorbent material such as vermiculite and sweep into closed containers for disposal.

WASTE DISPOSAL: Contaminated vermiculite or porous surface must be disposed of in a permitted hazardous waste facility. Recovered liquids may be reprocessed or incinerated in a permitted hazardous waste facility. In all cases material should be disposed of in accordance with all applicable regulations.

HANDLING PROCEDURES AND EQUIPMENT: Keep container closed when not in use. Store only in closed, properly labeled containers. Store as COMBUSTIBLE LIQUID. Store in a cool, dry, well ventilated area away from heat sparks and open flames. Treat empty containers as containing hazardous residues.

ADDITIONAL INFORMATION

CALIFORNIA PROPOSITION 65: This regulation does not address "de minimis" levels. Therefore even trace amounts of chemicals on these fists must be identified. Trace quantities refer low levels of materials whose exact concentrations may not always be determined because of their

This product contains the following chemicals known by the state of California to cause cancer: None This product contains following chemicals known by the state of California to cause reproductive harm : None

SHIPPING INFORMATION: For bulk domestic shipment: Combustible liquids, NOS (petroleum Distillates), Combustible Liquid, NA 193, PG III.

SECTION 9 - PREPARATION AND DATE OF MSDS

PREPARED BY (GROUP DEPARTMENT, ETC.)
ALLIED PRESSROOM CHEMISTRY TECHNICAL SERVICES DEPARTMENT

PHONE NUMBER 1-800-327-8487

DATE May 2005

The above information is believed to be correct as of the date hereof and is based on data supplied by raw material suppliers, however, no warranty of merchantability, fitness for use, or any other warranty is expressed or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with each use. Since the Information contained herein may be applied under conditions beyond our control and with which we are unfamiliar, and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he



ALLIED ORANGE WASH

For Automatic Wash Up Systems

10097

While *Orange Wash* is made for automatic wash up systems, it is a premium blanket and roller wash for all applications. *Orange Wash* lifts and removes inks and other contaminants quickly from blankets and rollers This is a low odor wash, which up to 50% water can be added for conventional use (by hand)

ADVANTAGES

- WORLD WIDE FOGRA APPROVAL (automatic wash systems)
- Cleans quickly.
- Low odor.
- Up to 50% water can be added for conventional use

RECOMMENDATIONS FOR USE

Automatic Wash Systems:- use as you would any other automatic blanket wash OR Add 10% to 50% water into *Orange Wash* in a wash up bottle.

Roller Wash:- pour a liberal amount over inking rollers adding more if necessary, engage wash-up attachment.

Blanket Wash:- pour a liberal amount onto a clean shop towel. Wipe entire blanket with a side-to side motion.

Chemistry, Integrated Equipment and Specialty Products for the Pressroom
2040 Lee Street / Hollywood, FL 33020 / 800-327-8487 / Fax: 954-923-6462
3546 Emery Street Los Angeles, CA 90023 / 800-272-8397 / Fax: 323-266-4382

www.alliedchem.com



ALLIED PRESSROOM CHEMISTRY MATERIAL SAFETY DATA SHEET

E STATE OF THE STA	SE	CTION 1 P	RODUCT ID	ENTIFICA	TION	AND USE	
PRODUCT IDENTIFIER	(Plate Clea	0-minimal, 1-alight, 2-n HEALTH HAZ FIRE HAZAR					
MANUFACTURER'S NAME: ALLI	MANUFACTURER'S NAME: ALLIED PRESSROOM CHEMISTRY.						D: Z : 0 EQUIPMENT: C
STREET ADDRESS 2040 LEE STREET, HOLLYW	/00D, FLO	B Z					
OFFICE TELEPHONE 800-327-8467				RGENCY TELEPI 100 CHEMTRE(Protective Apron
THIS IS AN INDUSTRIAL PRODUCTS POSE AN INICOMPLETE LABEL AND	IEALTH RISH	(. BEFORE USE	ALWAYS RE	L AD	DO NOT BREATHE VA	PORS. DO NOT GET IN EYES, I CLOTHING. DO NOT INGEST	
医性原则是快速		SECTION	2 - INGREE		ORM	ATION	
INGREDIENTS *These ingradumts are religion to the reperture of SARA 1/1 and 40 CFA	nerting	CAS NUM	9ER	HAZARO DATA			
Aliphatic petroleum distiliai	les 4	5 64741-4		(TWA-TLV) 1			
Aromatic petroleum distilla		8 64742-9	5-6 ACGIH	(TWA-TLV) 1	00ppm	1	
This ingredient contains app. Xylene* 2-5% cas#1330-20- cas#35551-13-7 No exposur Ethylbenzene* 0-0.3% cast	7 OSHA P. e levels esta	iblished; Dieth	rylbenzene I+5 % c	s#98-82-8 OSH ras#25340-17-4	IA PEL : I No exp	50 ppm:, Trimethylben osure levels establishe	zenes* 30-50% d;,
Phosphoric Acid *		7664-38	-2 ACGIH (TWA-TLV) – 1	mg/m	3	
						_	
				TOWIS SUBST	ANCEC	ONTROL ACT (TSCA)	
	ALL INGRE						STATE OF THE STATE
BUNGAN CTATE	ODOR AN	SE Dappearan	CTION 3 - P		PH	Special Series of A	SPECIFIC GRAVITY
PHYSICAL STATE VISCOUS LIQUID		noizlume ek	Miscible		2		0 92
VAPOR PRESSURE (MM Hg) of VOC materials <3.0 @ 20°C	VAPOR D (AIR=1) >1	ENSITY	EVAPORATION (Butyl acetal		BOILII 212 in	YĞ POINT (°F) Itial	V.O.C.'s 54 % by Mass 4.1 lb per Gallon (488 g/l)
		SECTION	4 - FIRE AN	ID EXPLO	SION	DATA	经证明 和1000000000000000000000000000000000000
FLAMMABILITY YES NO D	IF W	YES, UNDER					
EXTINGUISHING MEDIA CARBON DIOXIDE, DRY				SPECIAL F	IRE FIG	HTING PROCEDUR	RES;
FLASHPOINT ("F) AND M		<u> </u>	UPPER FLAMA	ABLE LIMIT		LOWER FLAMMABL	E LIMIT
107 by TCC AUTOIGNITION			OMBUSTION P	RODUCTS			
TEMPERATURE (°C) Oxides of carbon and hydrocarbons. EXPLOSION SENSITIVITY TO IMPACT SENSITIVITY TO STATIC DISCHARGE							
DATA • NOT KNO	WN N	0		NO			CONTRACTOR STREET, WILLIAM
国际中央的		SEC	CTION 5 - RE	ACTIVITY	DAT	A DLYMERISATION	place as a second plant and the
CHEMICAL STABILITY YES NO D	N	on a		- HAZARU		DE HAISKISK 11014	
INCOMPATIBILTY WITH Strong oxidizing agents, s	trong redu	cing agents, s	itrong bases				
HAZARDOUS DECOMPO	OSITION P l liberate c	RODUCTS: In orbon dioxide,	carbon monoxide	en flame or a and	T	his product is photoc	hemically reactive



ALLIED PRESSROOM CHEMISTRY MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFIER · ALLIED U.P.C. PLATE CLEANER

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY

SKIN CONTACT

SKIN ARSORPTION ...

EYE CONTACT #

INHALATION ...

INGESTION .

ACUTE EXPOSURE TO PRODUCT: Inhalation - Inhalation can cause severe imitation of the respiratory tract, signs of central nervous system depression, dizziness nausea and headache. Eye - Will cause severe imitation, burning, redness and tearing. Skin - Can cause irritation, redness burning and drying. Ingestion causes irritation of the digestive tract. Aspiration into the lungs can lead to pulmonary odema and chemical pneumonia which can prove fatal. Prolonged over-exposure can lead to narcosis, respiratory failure,

CHRONIC EXPOSURE TO PRODUCT. Prolonged skin contact may aggravate an existing dermatitis. Prolonged and repeated exposure to the pure solvent contained in this product has been reported to cause permanent brain and central nervous system

CARCINOGENICITY Ethylbenzene cas#100-41-4 present at less than 0.05% is listed as IARC Group 28 - a possible human carcinogen.

TARGET ORGAN EFFECTS. Over-exposure has been linked to blood, liver and kidney abnormalities in animal studies. Has been linked to birth defects in animal studies, may harm fetus at exposure levels harmful to mother.

EMERGENCY FIRST AID PROCEDURES:

EYES: Flush with running water for at least 15 minutes. Seek medical attention.

SKIN: wash affected area with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: Remove victim to fresh air. Administer oxygen and/or artificial respiration if breathing difficulties occur. Seek medical attention.

INGESTION: Do not induce vomiting. Material is an aspiration hazard, may enter lungs and cause lung damage. Seek immediate medical attention.

SECTION 7 - PREVENTATIVE MEASURES

GLOVES.

Nitrite for Incidental, non-immersion contact

RESPIRATOR: Use NIOSH approved SCBA in emergency situations or confined areas.

EYE (SPECIFY)

Splash proof goggles or face shield

CLOTHING: Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS). Use local exhaust or dilution ventilation as appropriate to control exposure below permissible levels. Vapors are heavier than air and will collect in low areas

LEAK AND SPILL PROCEDURE. Extinguish all sources of ignition. Provide maximum ventilation. Dike area to contain spill, Take precautions to prevent contamination of ground and surface waters. Recover spilled material using absorbent material such as vermiculite and sweep into closed containers for disposal.

WASTE DISPOSAL: Contaminated vermiculite or porous surface must be disposed of in a permitted hazardous waste facility. Recovered liquids may be reprocessed or incinerated in a permitted hazardous waste facility. In all cases material should be disposed of in accordance with all applicable regulations

HANDLING PROCEDURES AND EQUIPMENT. Keep container closed when not in use. Store only in closed, properly labeled containers. Store as COMBUSTIBLE LIQUID, Store in a cool, dry, well ventilated area away from heat sparks and open flames. Treat empty containers as containing hazardous residues.

ADDITIONAL INFORMATION

CALIFORNIA PROPOSITION 65. This regulation does not address "de minimis" levels. Therefore even trace amounts of chemicals on these lists must be identified. Trace quantiles refer low levels of materials whose exact concentrations may not always be determined because of their

This product contains the following chemicals known by the state of California to cause cancer: benzene, dioxane, ethylene oxide, acetaldehyde. This product contains following chemicals known by the state of California to cause reproductive harm : benzene, toluene, ethylene oxide

SHIPPING INFORMATION: Not regulated for ground domestic transportation in non-bulk quantities. For export and air shipment. Flammable liquids, NOS (petroleum distillates), 3, UN 1993, PG III

SECTION 9 - PREPARATION AND DATE OF MSDS

PREPARED BY (GROUP DEPARTMENT, ETC.)
ALLIED PRESSROOM CHEMISTRY TECHNICAL SERVICES DEPARTMENT

PHONE NUMBER 1-800-327-8487

DATE May 2007

The above information is believed to be correct as of the date hereof and is based on data supplied by raw material suppliers, however, no warranty of merchantability, fitness The above interneut is observed to be correct as or are designed in data and the assignment of the material in the material, or the hazards of the services with each use. Since the information contained herein may be applied under conditions beyond our control and with which we are unfamiliar, and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assume risk of his use thereof.

```
Material Safet, Duta Theet
                                                                                                                                                                         12 17 11 17
 MSDS: 11956 - PERHAMENT BLANKET REPAIR 0229
 Plant #: 404 Interior mass assessed that the second second
 Status: Pendira
Formula: NOT GIVE
                                                                                                                                    11.5 27.7
Specification: NOT .I.E.
                                                                                                  0 252M
Synonyma:
NOT GIVEN
Stock Items: Nor G1 EN
Manufacturer
        VARN PRODUCTS.
        905 S. WESTWOOD
                                                                                                                                   Phone File of a 25%
        ADDISON, IL 30101
                                                                                                                          Enter Beney:
Supplier
        VARN PRODUCTS
        905 S. WESTWOOD
                                                                                                                                     Phone : 800-236-8276
        ADDISON, IL 60101
                                                                                                                           Emergency:
Physical/Chamical Characteristics
        Boiling Point .....: GT
                                                                                      212 8
        Melting Point .....: MG
       Freezing Point .....: NG
       Pour Point .....: NG
       Softening Point .....: NG
        Specific Gravity ....: EQ
                                                                                      0.1
       Vapor Pressure #..... NG
       Vapor Density .....: NA
       Percent Volatiles .... No
       Evaporation Rate .... LT
                                                                                                                                     ather = 1, Louer.
                                                                                        1
       PH ...... NG
       Molecular Weight .....
       Viscosity ..... #16
       Solubility in Water . . 100%.
       Odor/Appearance/Other Characteristics:
       STRAW COLORED LIQUID . MILD DOOR . MATERIAL VOOM .U.A.
Fire and Explosion Data
       Closed Cup Flash Pt. 3 Ho
                                                                                                                                         NOME .
       Open Cup Flash Point .: "U
                                                                                                                                         HUNE ...
       Fire Point ..... rG
       Auto Ignition ...... No
       Lower Explosion Limit : MA
       Upper Explosion Limit : NA
Shipping Regulations
       UN/NA Number: NG
       DOT Hazard Class: N/A
```

Shipping Label: MUT GIVEN Shipping Name: NOT REGULATED

Material Cafe" Cuts does MSOS: 11 56 - "Logation Country to the message

ಿದ್ದರ್ಜಿಕ್ ಎಂದು ಸಂಪರ್ಧವರಿಗಳು ಅವರ ಕಾರ್ಯಕ್ಷಕ್ಕೆ ಕ್ರಮಿಸಿಕೊಂಡಿದ್ದರೆ ಮೈಕ್ಕೆ ಮೊದ Plant 8. 40, Institute France

N CO 11350

Frepared

Preparer's flame & Title: Vanil Protections.

Preparation Date: 10/16/92

Component(s):

PERMANENT BLANKET REPAIR

riG lig/m3 OSHA Pel: NG PPM NG m∃/m3 ACGIH TLV: NG PPM NG mg/m2 NG ppm STEL:

CAS No .: NOT GIVEN Percent of Product: NG

Text Section(s)

MANUFACTURER IDENTIFICATION

SEE DATA PAGES FOR ADBITIONAL INFORMATION.

PRODUCT NAME: PERMANENT BLANKET PERAIR

PRODUCT CODE: 01190

HMIS CODES: H = 1 F = 1 R - C P - A

EMERGENCY PHONE: (300) 424-9300

INFORMATION PHONE: (800) 336-8276

MANUFACTURER'S NAME & ADDRESS:

VARNI PRODUCTS 905 SOUTH WESTWOOD ADDISON, ILLINOIS 60101

HAZARDOUS INGREDIENTS/SARA III INFORMATION

SEE COMPONENT PAGE(S) FOR ADDITIONAL INFORMATION.

NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT

No toxic chemical(s) subject to the reporting regularments of Section 313 of Title Ili and of 40 CFR 272 are present.

Material Safet, Data Sheet

MSD3: 11956 - PERMANENT BLANKET PLPAIR 02290

ALL INGREDIENTS ARE LISTLY IN THE TEN TOTAL LIBERT BLY.

PHYSICAL/CHEMICAL CMARACTUTILTICS

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

FIRE AND EXPLOSION HAZARD DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

EXTINGUISHING MEDIA FOAM, ALCOHOL FOAM, CCC, ERV CHEMICAL, WATER FOR

SPECIAL FIREFIGHTING PROCEDURES: AS IN ANY LIKE, WEAR COLF CONTAINED BREATHING APPARATUS (MSHAZNIOSH APPROVED) AND FULL PROTECTIVE GEAR.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: AVOID CONDITIONS OF EXCESSIVE HEAT TO INCREASE SHELF LIFE.

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID STRONG OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION OR EVERODUCTS: NONE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HEALTH RAZARD DATA

INHALATION MEALTH RIS, & ARE SYMPTONI OF DARROW THE NO MAIN D'IN MORMEL INDUSTRIAL USE:

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: PROLOMGED OR REPEATED CONTACT WAY CAUSE EYE IRRITATION.

. . .

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: THIS PRODUCT IS NOT CONSIDERED TO BE TOXIC THROUGH SKIN ABSORPTION.

MS000: 11956

Material Saf ty Jaca W. sh MSDS. 11956 - PERMANUM SURFRY SECURAL RECORD Plant #: 404 Insertol second description of the Maser Colors

1- -

INGESTION HEALTH RILL AND DIM TEXT OF EXPLUSE OF THE TOTAL AUST NAUSEA, MODERATE GASTRU-INTO FIRST FRATION, IN TISTINGAL TOLLTH FIRST AID PROCEDURES.

HEALTH HAZARDS (ACUTE AND CHRONIC): THIS PRODUCT MAY PRODUCE MILD TO MODERATE IRRITATION UPON CONTACT WITH EYES AND MILD IRRITATION WITH SKIN. NO CHRONIC EFFECTS ARE KNOWN OR EXPECTED.

CARCINOGENICITY: THIS PRODUCT CONTAINS NO KNOWN CARCINOGENS.

OII : 9TM

IARC MONOGRAPHS: NO OSHA REGULATED: NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH WATER FOR IS MINUTES. SEED NEDTCAL ATTENTION IF IRRITATION PERSISTS.

SKIN: WASH WITH BOAP AND WATER.

INHALATION: MOVE TO FEESH AIR.

INGESTION: IF VICTIM IS COMSCIOUS, INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. OCTAIN MEDICAL ATTENTION IMMEDIATELY.

PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SOAK UP ON ABSORBENT MATERIAL. DISPOSE INTO NON-HAZARDOUS REFUSE. WASH RESIDUE WITH SOAP AND WATER.

WASTE DISPOSAL METHOD: THIS PRODUCT, AS RECEIVED, MAY MEET THE SEWER DISPOSAL GUIDELINES IN MANY MUNICIPALITIES. CHECK WITH LOCAL SEWER AUTHORITIES BEFORE DISPOSING OF PRODUCT.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN A COOL, DRY AREA AWAY FROM SUNLIGHT AND EXCESS HEAT. KEEP FROM FREEZING.

OTHER PRECAUTIONS: WHEN TRANSFERRING OR USING THIS ERGDUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

Material Safety Dota thou

MSDS: 11956 - PERMANENT BLANGET REPAIR 02200

Plant #: 404 Insertoo assart contrata descensione de la secons de la contrata del contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata del contrata del contrata del contrata de la contrata de la contrata de la contrata del contrata del contrata del contrata del contrata del contrata

CONTAINS NO CHEMICALS FOUND ON R I CALIFORNIA PROPOSITION WAS LIST.

PROPER SHIPPING MAME: NOT DECULATED, MAZARO CLASS: N.A. UN NUMBER: NZA.

MEDS: 11956

PACKING GROUP: N/A

CONTROL MEASURES

RESPIRATORY PROTECTION . AND ENGLISHED PROFESSION ASSESSMENT

VENTILATION: NO CACCLAR SET IL STATE TO THE

PROTECTIVE GLOVES: No. FZ.UT. IS UNIOR NUR DE CONFINENCE DE LES

EYE PROTECTION: SAFETY CLASUES WITH DICE THICKED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NOT MECEDIANNE.

WORK/HYGIENIC PRACTICES: WASH WITH SOAP AND WATER AFTER HAHDLING PRODUCT.

SPECIAL NOTES

DISCLAIMER: THE INFORMATION ON THIS MSCS IS ACCURATE AS OF THE DATE SHOWN IN THE DATA PAGES. SINCE THE USE OF THIS PRODUCT IS NOT IN THE CONTROL OF VARN, IT IS THE USER'S RESPONSIBILITY TO DETERMINE WHAT CONSTITUTES SAFE USAGE FOR A PARTICULAR PURPOSE. THIS FORM MAY BE REPRODUCED LOCALLY IN ANY QUANTITIES NECESSARY TO MEET YOUR REQUIREMENTS.

End of MSDS



LITHCO MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

TRADE NAME (as labeled) Lithco Enviro Blanket Restorer
MANUFACTURER'S NAME: Lithco, Inc. • 9449 Jefferson Blvd. • Culver City, CA 90232-2913

PHONE NUMBER FOR ADDITIONAL INFORMATION: (310) 559-7770 or (800) 454-8426 FAX NUMBER FOR ADDITIONAL INFORMATION: (310) 559-6908 or (888) 454-8426 EMERGENCY INFORMATION: For chemical emergency, spill, leak, fire, exposure or accident call Infotrac, day or night, at (800) 535-5053.

DATE PREPARED OR REVISED: 7/17/08 PREPARED BY (optional):

SECTION II: HAZARDOUS INGREDIENTS

				EXPOSURE LIN	MITS
Chemical Names	CAS Numbers	94	ACGIH TL\'	OSHA PEL	OTHER
N-methyl pyrrolidone	872-50-4		100 ppm	100 ppm	N/A
Hydroxypropyl cellulose	9004-64-2		NE NE	NE	N/A

HMIS RATING:

Health, 2

Fire: I

Reactivity 0

Personal protection: B

SECTION III: PHYSICAL PROPERTIES

VAPOR DENSITY (AIR = 1): >1

MELTING POINT/RANGE: N.D.

SPECIFIC GRAVITY: 1.03

BOILING POINT/RANGE: ° C: 203

SOLUBILITY IN WATER: Complete

EVAPORATION RATE (BuAc = I): slower than BuAc

VAPOR PRESSURE, mm Hg @ 20 degrees C: < 1 mbar

APPEARANCE AND ODOR: jelly appearance, strong nut

odo

This product contains 98.76 % VOC by formulation. VOC = 8.47 LB/GAL.

This product is not photochemically reactive.

SECTION IV: FIRE AND EXPLOSION

FLASH POINT, ° F. (give method): 200°F (ASTM D93-73) AUTO-IGNITION TEMPERATURE, 518° F

FLAMMABLE LIMITS IN AIR (VOLUME %), LOWER 1.3 % UPPER 9.5%

FIRE EXTINGUISHING MATERIALS

WAT	ER SPRAY: XX	FOЛМ: XX	CARBON DIOXIDE: XX	DRY CHEMICAL: XX	OTHER: N/A

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighting personnel should wear full bunker gear with NIOSH approved SCBA.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Cool exposed containers with water fog to prevent explosions. Can react with oxidizing materials

This form complies with and is essentially similar to OSHA Form 174 as specified in 29CFR 1910.1200 (Federal OSHA Hazard Communication Standard) and complies with requirements of CALJOSHA. Page 2 of 4 SECTION V: HEALTH HAZARD INFORMATION SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE INHALED: Not an expected route of exposure. CONTACT WITH SKIN OR EYES: Severe eye and moderate skin irritant. Defatting of the skin. ABSORBED THROUGH SKIN: Slight skin absorption hazard. SWALLOWED: Slight ingestion hazard. Gastrointestinal distress. HEALTH EFFECTS OR RISKS FROM EXPOSURE (Explain in lay terms) ACUTE: Severe eye irritant with temporary clouding. Moderate skin irritant. Moderate skin absorption hazard. Slight ingestion hazard. No data found to indicate inhalation hazard. CHRONIC: No chronic effects of carcinogenicity, mutagenicity (AMES Test), or teratogenicity by dermal exposure have been found. Prolonged skin contact causes redness, irritation and defatting of the skin. FIRST AID EMERGENCY PROCEDURES EVE CONTACT: Flush eyes for at least 15 minutes with running water while holding eyelids open. Get medical attention. SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation persists. Do not wear contaminated clothing until properly laundered. INHALED: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration or CPR if not breathing. Seek medical attention. SWALLOWED: Dilute with warm water. Do not induce vomiting. Get immediate medical attention. Never give fluids or induce vonuting if person is unconscious or having convulsions. SUSPECTED CANCER AGENT? XXXX NO. THIS PRODUCT'S INGREDIENTS ARE NOT FOUND IN THE LISTS BELOW. YES. ____ FEDERAL OSHA ____ NTP ___ IARC California employers using CAL/OSHA regulated carcinogens must register with CAL/OSHA. The CAL/OSHA and Federal OSHA

CALIFORNIA PROP. 65 STATEMENT

carcinogen lists are similar.

THIS PRODUCT DOES / DOES NOT CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR CAUSE REPRODUCTIVE HARM.

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Product may aggravate pre-existing skin or respiratory problems.

Page 3 of 4

SECTION VI: REACTIVITY DATA

PRODUCT IS XXX STABLE ____ UNSTABLE

CONDITIONS TO AVOID: Avoid contact with heat, sparks and open flame.

INCOMPATIBILITY (materials to avoid): Strong oxidizing agents, sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS, INCLUDING COMBUSTION: Carbon monoxide, carbon dioxide, oxides of nitrogen and unburned hydrocarbons

HAZARDOUS POLYMERIZATION _____ MAY OCCUR XXX WILL NOT OCCUR. CONDITIONS TO AVOID: None under normal product use.

SECTION VII: SPILL, LEAK AND DISPOSAL PROCEDURES

SPILL RESPONSE PROCEDURES, INCLUDING EMPLOYEE PROTECTION: Extinguish all sources of ignition. Contain spill. Wear SCBA for airborne concentrations above TLV. Use sparkproof tools during clean-up. Soak up with inert absorbent.

PREPARING WASTES FOR DISPOSAL (containers, neutralization, etc.): Place in non-leaking containers suitable for material and certified for transporting hazardous waste.

NOTE: DISPOSE OF ALL WASTES IN ACCORDANCE WITH FEDERAL. STATE AND LOCAL REGULATIONS.

SECTION VIII: SPECIAL HANDLING INFORMATION

VENTILATION AND ENGINEERING CONTROLS: Provide ventilation to keep airborne concentration below TLV.

RESPIRATORY PROTECTION (TYPE): NIGSH/MCA approved for organic vapors for concentrations above TLV.

EYE PROTECTION (TYPE): Splashproof chemical goggles.

GLOVES (SPECIFY MATERIAL): Neoprene, nitrile or PVC.

OTHER CLOTHING AND EQUIPMENT: Eyewash station and safety shower should be provided.

WORK PRACTICES, HYGIENIC PRACTICES: Wash hands thoroughly after use and before eating, drinking, smoking or using the toilet.

OTHER HANDLING AND STORAGE REQUIREMENTS: Keep containers closed when not in use. Do not use near sources of ignition. Avoid prolonged or repeated contact with skin or breathing of vapors. Keep from children. For industrial use only

PROTECTIVE MEASURES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Use protective gear as indicated above. Do not start electrical equipment in presence of vapors.

Page 4 of 4

SECTION IX: SHIPPING INFORMATION

FULL DOT SHIPPING NAME: Not Hazardous

DOT HAZARD CLASS: N/A PACKING GROUP: N/A UN/NA NUMBER: N/A

SECTION X: ENVIRONMENTAL STATEMENT

THIS PRODUCT IS SUBJECT TO REPORTING ACCORDING TO SARA, TITLE III (SUPERFUND AMENDMENT).

Section 311/312 Hazard Category: Fire Hazard

Section 313: No chemicals in this product exceed the de minumus reporting level established by SARA Title III Section 313. 40CFR372.

Toxic Substance Control Act (TSCA) - All components in this product are listed on TSCA inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) - No chemicals in this product are subject to the reporting requirements of CERCLA.

Information contained in this safety data sheet is drawn from recognized sources and is believed to be accurate and correct as of the date of issue. It is presented for your evaluation of the suitability of the product and for compliance with federal and state regulations. No claims are made for the accuracy, completeness and reliability of the information contained herein.

MATERIAL SAFETY DATA SHEET FOUNTAIN CONCENTRATE 2451 Page: PRODUCT NAME: FOUNTAIN CONCENTRATE 2451 HMIS CODES: H F R P PRODUCT CODE: H446 1 0 0 B CHEMICAL NAME: FOUNTAIN SOLUTION MANUFACTURER'S NAME: PRINTERS' SERVICE ADDRESS : 26 Blanchard Street Newark, New Jersey 07105 EMERGENCY PHONE : 1-800-424-9300 LAST REVISION : 04/11/98 INFORMATION PHONE : 1-973-589-7800 DATE REVISED : 06/24/98 PREPARER : ENVIRONMENTAL DEPT. VAPOR PRESSURE WEIGHT REPORTABLE COMPONENTS CAS NUMBER ma Hg & TEMP PERCENT PROPYLENE GLYCOL 57-55-6 .08milig 20 C 10 - 20% LD50 0.5 - 5g/kg * 2-BUTOXYETHANOL 111-76-2 0.6 mmHg 20 C 1 - 10% PEL 25 ppm: TLV 25 ppm // LC50 800 ppm/8hr : LD50 1.746 g/kg * APMONIUM NITRATE 6484-52-2 HL NO DATA 1 - 10% NO DATA ACETIC ACID 64-19-7 13mmHg 20 C 1 - 10\$ PEL 10ppm: TLV 10ppm * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. ======== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ========== BOILING POINT : 212 F SPECIFIC GRAVITY (H20-1): 1.07 VAPOR DENSITY : 0.5 (atr = 1) VAPOR PRESSURE: 16.7 mmHg ORYING RATE : <0.1(nButyl Acet.=1) : 0.73 1b/gal VOC METHOD: EPA \$24 PHOTOREACTIVE : NO H2D SOLUBILITY : 100% : > 80% by weight VOLATILES APPEARANCE : GREEN PHYSICAL STATE : LIQUID ODOR : HILD FLASH POINT: HONE METHOD UBBD: NONE FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: NOW UPPER: NONE EXTINGUISHING MEDIA: KATER, CARBON DIOXIDE, FOAM, OR DRY POMOER. SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. UNUBUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER MAY RUPTURE STABILITY: YES IF NO CONDITIONE: INCOMPATIBILITY (MATERIALS TO AVOID): YES IF YES WHICH ONES: STRONG OXIDIZER HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE, CARBON HONOXIDE, OXIDES OF NITROGEN ON IGNITION HAZARDO'JB POLYMERIZATION: NOWE INDICATIONS OF EXPOSURE:

SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS. ITCHING. IRRITATION.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: GASTROINTESTINAL IRRITATION. NAUSEA. VOMITING AND DIARRHEA.

EMBERGIENCY AND FIRST AID:

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: NONE

EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.



MATERIAL SAFETY DATA SHEET FOUNTAIN CONCENTRATE 2451 .

Page: 2

INHALATION - NONE

EYES - FLUSH EYES WITH WATER FOR 15 MINUTES. LIFT UPPER AND LOWER LIDS. SEE DOCTOR.

SKIN - WASH WITH SOAP AND WATER.

INGESTION - INDUCE VONITING. SEE DOCTOR IMMEDIATELY.

HEALTH HAZARDS (ACUTE AND CHRONIC):

EFFECT OF CHRONIC EXPOSURE: PROLONGED HIGH VAPOR EXPOSURE MAY CAUSE LIVER AND KIDNEY PROBLEMS.

EFFECT OF ACCUTE EXPOSURE: NONE

IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEEN

CARCINOBENICITY: NTP CARCINOGEN: No IARC MONOGRAPES: No MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DEPMATITIS. MAY AGGRAVATE EXISTING LIVER AND OSHA REGULATED: No KIDNEY AILHENTS.

======= SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM STRONG OXIDIZERS. HEAT, SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL. SUCH AS SAND, AS A DAM. KEEP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER, FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS. CALL A SPILL RESPONSE TEAM. IF REQUIRED, CONTACT STATE/LOCAL AGENCIES.

WASTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED PLASTIC DRUMS FOR DISPOSAL IN ACCORDANCE WITH LOCAL. STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT FREEZE. IF FROZEN. THAN OUT AND HIX WELL BEFORE USING.

OTHER PRECAUTIONS: WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECOMDITIONED FOR REUSE OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

EXPOSURE CONTROL AND PERSONAL PROTECTION:

RESPIRATORY PROTECTION: NONE NEEDED.

VENTILATION: HECHANICAL (GENERAL) SATISFACTORY.

PROTECTIVE GLOVES: USE RUBBER OR SYNTHETIC GLOVES.

EYE PROTECTION: USE SAFETY GLASSES OR GOGGLES.

OTHER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.

WORK/HY-JIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT HEAR CLOTHING HET WITH

GROUND SHIPMENT.

UN No

: NONE

D.O.T HAZARD CLASSIFICATION: NOT A D.O.T HAZARDOUS MATERIAL.

THE INFORMATION AND RECOMMENDATIONS HEREIN HAVE BEEN COMPILED FROM OUR RECORDS AND OTHER SOURCES BELIEVED TO BE RELIABLE. NO WARRANTY, GLARANTY OR REPRESENTATION IS HADE BY PRINTERS' SERVICE AS TO THE SUFFICIENCY OF ANY REPRESENTATION. THE ABSENCE OF DATA INDICATES ONLY THAT THE DATA IS NOT READILY AVAILABLE TO US. ADDITIONAL SAFETY HEASURES HAY BE REQUIRED UNDER PARTICULAR OR EXCEPTIONAL CONDITIONS OF USE. WITH REGARD TO THE MATERIALS THEMSELVES. PRINTERS' SERVICE MAKES NO WARRANTY OF ANY KIND NOWTEVER. EXPRESSED OF IMPLIED. AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

MATERIAL SAFETY DATA SHEET

Product Code:

B012008

FOUNT 379

SECTION EMANUEACTUREE DENTIFICATION

Manufaturer's Name:

Day International Chemical Products Div.

Address:

130 West Second Street, Suite 1700

Dayton, Ohio 45402

Emergency Phone: Name of Preparer:

800-424-9300 CHEMTREC®

Day Chemical Prod. Div

Information Phone:

800-336-8276

8/2/2007 Date Printed: Date Revised:

08/02/2007



GRAVATORUSTNICATORICAS ANATURA ORUSTOR

Component	CAS Number		Pressure @ Temp	Weight Percent
*Glycol Ether DB OSHA PEL: N/E, ACGIH® TLV®. N/E, Mig: 35ppm Hazardous Air Polkutant	112-34-5	.02	77 ° F	6%
Glycerine OSHA PEL: 10mg/M3, ACGIH® TLV®, TWA. 10mg/M3 as Mist	56-81-5	1.0	68°F	5.2%
*Non-Hazardous Water Dissociable Nitrates				1.3%

Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372. All ingredients are listed on the EPA TSCA Inventory

BOILING POINT / RANGE:

VAPOR DENSITY:

EVAPORATION RATE:

V.O.C. (EPA METHOD 24) lb/gi:

VAPOR PRESSURE: SOLUBILITY IN WATER:

APPEARANCE AND ODOR:

SPECIFIC GRAVITY (H20=1):

>212'F

Heavier than air.

Slower than water.

0.9

Not Applicable.

100%

Green Liquid - Mild Odor

1.09

FLASH POINT:

None.

METHOD USED:

TAG CC

FLAMMABLE LIMITS IN AIR BY VOLUME:

None, Aqueous product.

EXTINGUISHING MEDIA:

Use any fire extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES:

Under normal conditions this product does not support combustion. However, as in any fire, wear self-contained breathing apparatus (MSHA/NfOSH approved) and full protective (bunker) gear.

None Known.O

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SKUERON STREET OF VETER DATA

Product Code:

B012008

FOUNT 379

Page 2 of 3

STABILITY:

Stable

CONDITIONS TO AVOID:

Avoid conditions of excess heat to prolong shelf life.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid mixing with strong exidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

None known.

HAZARDOUS POLYMERIZATION:

Will Not Occur.

SECTION GET LEVEL THE HAZARD DATE

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Not an inhalation hazard in normal industrial use.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Skin and eye contact may cause mild to moderate irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Prolonged or repeated skin contact may cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Small amounts transferred to the mouth by fingers during use, etc., should not cause injury. Swallowing large amounts of this product may cause nausea, moderate gastro-intestinal initiation, and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC):

This product may cause mild to moderate irritation upon contact with eyes and mild irritation to skin. No chronic effects are known or expected.

CARCINOGENICITY NTP CARCINOGEN:

No

IARC CARCINOGEN:

OSHA CARCINOGEN:

No No

MEDICAL CONDITIONS GENERALY AGGRAVATED BY EXPOSURE:

Skin contact may aggravate pre-existing dermatitis.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Hold eyelide open and flush with water for 15 minutes. Contact physician if irritation persists. SKIN: Wash with soap and water. INGESTION: If victim is fully conscious, induce vomiting as directed by medical personnel. Seek medical attention immediately. INHALATION: Move victim to fresh air. Give oxygen if breathing is labored.

STREET CHARLES IN COLUMN CONTRACTOR OF THE VIOLET AND ADDRESS.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASES OR SPILLED:

Clean up small spills with soap water and a mop. Large spills should be diked and kept from entering the sewer. Soak up large spills with absorbent or transfer liquid into a closed container for later disposal.

WASTE DISPOSAL METHOD:

Product may meet the sewer disposal guidelines in many municipalities. Sewer disposal is governed by EPA Regulations (Clean Water Act) which controls local sewer authorities (POTW). Sewer disposal of spent product may be restricted by discharge limits for specific chemicals set by the POTW and end of pipe chemical levels of the individual user. Check with the local POTW before sewer disposing.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool dry area away from sunlight and excess heat. Protect from freezing. When using or transferring this product, wear proper personal protective equipment.

Product Code:

B012005

FOUNT 379

OTHER PRECAUTIONS/DOT INFORMATION::

DOT Proper Shipping Name: Not Regulated, Hazard Class; N/A, ID No.; N/A, Packing Group: N/A

SECTION RECONTROL MEASURES

RESPIRATORY PROTECTION:

No special protection is required under normal conditions of use.

VENTILATION:

No special ventilation required.

PROTECTIVE GLOVES:

Not required under normal conditions of use. For extended exposure wear gloves made of butyl or nitrile rubber.

EYE PROTECTION:

Wear safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A personal protective rating of X means you must see your supervisor for guidance. OSHA regulations (29CFR Part 1910, Subpart I) require employers to evaluate Personal Protective Equipment requirements in the workplace.

WORK/HYGIENIC PRACTICES:

Wash with soap and water after product contact with skin.

CALL STREET, STREET, SECTION STORE AREA

The information on this MSDS is believed to be accurate as of the date shown in SECTION 1. Since the use of this product is not under the control of the manufacturer, it is the user's responsibility to determine what constitutes safe usage for a particular product. This form may be reproduced in quantities necessary to meet your requirements.

HEALTH

FLANMABILITY

REACTIVITY

3

a

MATERIAL SAFETY DATA SHEET

Product Code:

B017282

IPA ...

SECTION 1: MANUFACTURER IDENTIFICATION

Manufaturer's Name:

Day International Chemical Products Div.

Address:

130 West Second Street, Suite 1700

Dayton, Ohio 45402

Emergency Phone: Name of Preparer:

800-424-9300 CHEMTREC®

Day Chemical Prod. Div

Information Phone:

800-336-8276

Date Printed: Date Revised:

6/27/2007 06/27/2007

SECTION 2: HAZARDOUS INGREDIENTS / SARA III INFORMATION

Component Isopropanol

CAS Number 67-63-0

mm Hg

31.2

Vapor Pressure @ Temp 66'F

F. The

Weight Percent

100%

OSHA PEL 400ppm, ACGIHO TEVO, TWA. 200ppm, STEL: 400ppm

All ingredients are listed on the EPA TSCA Inventory

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE / POINT:

VAPOR DENSITY:

180F

EVAPORATION RATE:

Heavier than air. Faster than n-Butyl Acetate.

V.O.C. (EPA METHOD 24) Ibigl:

6 55

VAPOR PRESSURE (MM HG @20 C):

31

SOLUBILITY IN WATER:

100%

APPEARANCE AND ODOR: SPECIFIC GRAVITY (H20=1):

Clear Liquid - Characteristic Alcohol Odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

53°F

METHOD USED:

TAG CC

FLAMMABLE LIMITS IN AIR BY VOLUME:

LOWER:

2.0%

UPPER:

12 0%

EXTINGUISHING MEDIA:

Foam, CO2, Dry Chemical, Water Fog.

SPECIAL FIREFIGHTING PROCEDURES:

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved) and full protective gear. Water may not be effective to extinguish fire. Use water spray to cool fire-exposed containers and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Treat as a petroleum fire. Vapors can travel to source of ignition and flash back.

SECTION 5: REACTIVITY DATA

787 781 6930

AMERICAN PAPER

08:37:34 a.m. 06-24-2009

2/3

Product Code:

B017282

IPA

Page 2 of 3

STABILITY:

Stable

CONDITIONS TO AVOID:

Avoid heat, sparks, flame and other sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid mixing with strong axidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Burning will produce exides of carbon and dense smoke.

HAZARDOUS POLYMERIZATION:

Will Not Occur.

SECTION 6: HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Excess vapor concentrations are attainable. Overexposure will cause tritation of the nose and throat and cause signs of nervous system depression such as headache, drowsiness, dizziness and unconsciousness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Skin and eye contact may cause moderate to severe irritation,

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Single prolonged exposure is not likely to result in the product being absorbed through the skin in harmful amounts.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Ingestion of this product will cause nausea, gastro-intestinal initiation, diarrhea and possible damage to vital organs. Follow first aid procedures.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Repeated or abusive breathing of concentrated vapors may effect pulmonary, cardiovascular, and central nervous systems. Repeated skin contact will dry out and crack skin. Aspiration hazard if swallowed; aspiration of product into the lungs can cause chemical pneumonitis.

CARCINOGENICITY NTP CARCINOGEN:

No

IARC CARCINOGEN:

No No

OSHA CARCINOGEN:

MEDICAL CONDITIONS GENERALY AGGRAVATED BY EXPOSURE:

Skin contact may aggravate pre-existing dermatitis. Inhalation of vapors may aggravate pre-existing asthma like conditions.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh alr. Give oxygen if breathing is labored. Apply artificial respiration if not breathing. Seek medical help. SKIN: Remove all contaminated clothing and shoes. Wash with soap and water. On not reuse clothing and shoes until cleaned. EYES: Flush eyes with plenty of water, while removing any contact lenses. Hold eyelids open and continue flushing for at least 15 minutes, INGESTION: DO NOT INDUCE vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Seek medical attention immediately.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASES OR SPILLED:

Eliminate all ignition sources. Spills should be diked and must be kept from entering the sewer. Soak up with absorbent or transfer liquid into a closed container for later disposal. Use spark-proof tools and explosion proof equipment.

WASTE DISPOSAL METHOD:

If this product as supplied, becomes a waste it is regulated by RCRA as Ignitable Waste, EPA I.D. #0001. Suitable methods of disposal include reclamation and fuel blending. Contact a Licensed Hazardous Waste Hauler for more information.

787 781 6930

AMERICAN PAPER

08:37:58 a.m. 06-24-2009

3 /3

Product Code:

B017282

IPA

Pege 3 of 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Containers should be grounded and bonded before transferring product. Store in the original closed container away from sunlight, excess heat, sparks, flames and other sources of ignition. Avoid skin or eye contact. Avoid breathing vapors. When transferring or using this product, wear proper personal protective equipment. Store and handle as a Flammable Liquid.

OTHER PRECAUTIONS / DOT INFORMATION:

DOT Proper Shipping Name: Isopropanol, Hazard Class: 3. ID No.: UN1219, Pack ing Group II. Product is classified as an OSHA Class IB Flammable Liquid.

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION:

The use of respiratory protection is advised when concentrations exceed the established exposure limits in SECTION 2. Depending on the airborne concentration, use a respirator with appropriate organic vapor cartridge (NIOSH approved). **VENTILATION**:

If current ventilation is inadequate to maintain concentrations below the established exposure limits in SECTION 2, additional ventilation or local exhaust system is required. Explosion proof electrical systems must be used.

PROTECTIVE GLOVES:

Avoid prolonged or repeated skin contact. Wear solvent resistant gloves made of nitrile or butyl rubber.

EYE PROTECTION:

Wear safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A personal protective rating of X means you must see your supervisor for guidance. OSHA regulations (29CFR Part 1910, Subpart I) require employers to evaluate Personal Protective Equipment requirements in the workplace.

WORKHYGIENIC PRACTICES:

Wash with soap and water after product contact with skin.

SECTION 9: DISCLAIMER

The information on this MSDS is believed to be accurate as of the date shown. In SECTION 1, Since the use of this product is not under the control of the manufacturer, it is the user's responsibility to determine what constitutes safe usage for a particular product. This form may be reproduced in quantities necessary to meet your requirements.

EXonMobil

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company A Division of Exxon Mobil Corporation

IPA USP

DATE PREPARED:

APR 1, 2000

MSDS NO.:

90242000

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION SECTION 1

PRODUCT NAME: IPA USP CHEMICAL NAME:

2-Propanol

CHEMICAL FAMILY: Aliphatic Alcohol PRODUCT DESCRIPTION: Clear colorless liquid. CAS 67-63-0

CONTACT ADDRESS:

**

ExxonMobil Chemical Company P.O. Box 3272, Houston, Toxas 77253-3272

EMERGENCY TELEPHONE NUMBERS: (24 Hours) 4.6

CHEMTREC (800) 424-9300 ExxonMobil Chemical Company (800) 726-2015

**

NON EMERGENCY TELEPHONE NUMBERS : (8am-5pm N-F) FOR HEALTH AND SAFETY INFORMATION CALL : (281) 870-6884 (281) 870-6000 FOR GENERAL PRODUCT INFORMATION CALL :

COMPOSITION/INFORMATION ON INGREDIENTS SECTION 2

This product is hazardous as defined in 29 CFR1910.1200. OSHA HAZARD Flammable

PEL; TLV Eye irritant

HAZARDS IDENTIFICATION SECTION 3

POTENTIAL HEALTH EFFECTS

EYE CONTACT:

Irritating, and will injure eye tissue if not removed promptly.

SKIN CONTACT:

Frequent or prolonged contact may irritate and cause dermatitis.

Low order of toxicity.

INHALATION:

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.

Negligible hazard at ambient temperature (-18 to 38 Deg C; O to 100 Deg F) INGESTION:

Minimal toxicity.

Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

ExonMobil Chemical

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company A Division of Exxon Mobil Corporation

IPA USP

PAGE:

DATE PREPARED:

APR 1. 2000

MSDS NO.:

90242000

SECTION 4 FIRST AID MEASURES

EYE CONTACT:

Immediately flush ayes with large amounts of water for at least 15 minutes. Get prumpt medical attention.

SKIN CONTACT:

Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention. INGESTION:

If swallowed, 80 NOT induce vomiting, Keep at rest. Get prompt medical

SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT: FLAHMABLE LIMITS:

AUTOIGNITION TEMPERATURE:

53 Deg F. METHOD: TCC ASTM D56 LEL: 2.0 UEL: 12.7 @ 77 Deg F.

> 662 Deg F.

GENERAL HAZARD

Flammable Liquid, can release vapors that form flammable mixtures at temperatures at or above the flashpoint.

"Empty" containers retain product residue (liquid and/or vapor) and can be dangerous, DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of. FIRE FIGHTING

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors.

Either allow fire to burn under controlled conditions or extinguish with alcohol type foam and dry chemical. Try to cover liquid spills with foam. DECCMPOSITION PRODUCTS UNDER FIRE CONDITIONS No unusual

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL

Eliminate sources of ignition. Prevent additional discharge of material. if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 REGULATORY

Exoniviobil Chemical

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company A Division of Exxon Mobil Corporation

IPA USP

PAGE: 3
DATE PREPARED: A

APR 1, 2000

MSDS NO. :

90242000

INFORMATION) notify the National Response Center.

Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.

Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD:

No, but use proper bonding and/or grounding procedure.

STORAGE TEMPERATURE, F: LOADING/UNLOADING TEMPERATURE. F:

Ambient Ambient
STORAGE/TRANSPORT PRESSURE, mmHg: LOADING/U

LOADING/UNLOADING VISCOSITY, cSt:

2.7

Atmospheric STORAGE AND HANDLING:

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight. This material is not a static accumulator, but use proper bonding and/or grounding procedures.

Do NOT pressurize, cut, heat, or weld containers. Empty product

containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

The use of mechanical dilution vantilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated.

Use explosion-proof ventilation equipment.

PERSONAL PROTECTION

For open systems where contact is likely, wear long sleeves, chemical resistant gloves, and chemical goggles.

Where contact may occur, wear safety glasses with side shields.

Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent

ExonMobil-

MATERIAL SAFETY DATA SHEET

ExhonMobil Chemical Company A Division of Exxon Moult Corporation

IPA USP

DATE PREPARED: APR 1, 2000

MSDS NO .:

90242000

ovarexposure by inhalation. GURKPLACE EXPOSURE GUIDELINES

DSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIHITS:

A THA of 400 ppm (980 mg/m3) and a STEL of 500 ppm (1225 mg/m3)

for Isopropyl Alcohol.

The recommended permissible exposure levels indicated above reflect the levels ravised by OSHA in 1989 or in subsequent regulatory activity. Alth. igh the 1989 levels have since been vacated by the 11th Circuit Court of Appenia, ExxonMobil Chemical Company recommends that the lower exposure levels be observed as reasonable worker protection.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES: A TWA of 400 ppm (983 mg/m3) and a STEL of 500 ppm (1230 mg/m3) for Isopropyl Alcohol.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY, at 'F:

0.79 at 68

DENSITY at 'F: 6.6 lbs/gal at 68

SOLUBILITY IN WATER, Wt. X at 'F: 100.00 at 68

SP. GRAV. OF VAPOR. at 1 atm (Air=1): FREEZING/MELTING POINT. 'F:

EVAPORATION RATE, n-Bu Acetate=1: 2.3

VAPOR PRESSURE, mmHg at 'F: 36 at 77

VISCOSITY OF LIQUID, ast at "F:

· 2.2 at 68

-128 BOILING POINT, 'F:

180 to 181

SECTION 10 STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID INSTABILITY:

Not applicable.

HAZARDOUS POLYMERIZATION:

Will not occur

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:

Not Applicable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:

Caustics, amines, alkanolamines, aldehydes, strong oxidizing agents, and

chiorinated compounds.

HAZARDOUS DECOMPOSITION PRODUCTS:

None

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

E%onMobil Chemical

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company A Division of Ercen Mabil Corporation

IPA USP

PAGE:

DATE PREPARED: APR 1, 2000

MSDS NO.:

90242000

ECOLOGICAL INFORMATION SECTION 12

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

DISPOSAL CONSIDERATIONS SECTION 13

Please refer to Sections 5, 6, and 15 for disposal and regulatory information.

TRANSPORT INFORMATION SECTION 14

DEPARTMENT OF TRANSPORTATION (DOT):

DOT SHIPPING DESCRIPTION: ISOPROPANDL, 3, UN 1219, II

REGULATORY INFORMATION SECTION 15

TSCA:

This product is listed on the TSCA Inventory at CAS Registry Number 67-63-0

CERCLA:

If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA TITLE III:

Under the provisions of Title III. Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Immediate health, Delayed Health, Fire. This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.

OTHER INFORMATION SECTION 16

HAZARD RATING SYSTEMS:

This information is for people trained in: National Paint & Coatings Association's (NPCA) Hazardous Materials Identification System (HMIS) National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials

NFPA 704 NPCA-HMIS 1 2

3 3 FLAMMABILITY 0 REACTIVITY 0

KEY

4 = Severe 3 = Serious 2 = Moderate

1 = \$1ight O = Minimal

ExonMobil Chemical

MATERIAL SAFETY DATA SHEET

ExxonMobil Chemical Company

A Division of Exxon Mobil Corporation

IPA USP

PAGE .

DATE PREPARED:

6

APR 1, 2000

MSDS NO.:

90242000

...

REVISION SUMMARY:

Since March 4, 1999 the corporate names have been changed to reflect the merger of Exxon and Mobil.

REFERENCE NUMBER: HDHA-C-00021

SUPERSEDES ISQUE DATE:
March 4, 1999

THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF OUR ENOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED, HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS, IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR MIS OWN PARTICULAR USE. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR.

+ FT LAUDERDALE

2003

MATERIAL SAFETY DATA SHEET

SUPERIOR PRINTING INKS 70 BETHUNE STREET NEW YORK, NY 10014 INFORMATION PHONE: (212) 741-3600 EMERGENCY PHONE: (212) 741-3600 DATE PREPARED: June 25, 2001 HMIS: H1 P0 R0

SECTION I

PRODUCT CLASS: Roller, Blanket and Plate Cleaner

TRADE NAME: Kwik 'N Basy

PRODUCT NUMBER: -

SECTION II - HAZARDOUS COMPONENTS

This product is not considered hazardous under the OSHA Hazard Communication Standard, 29CFR 1910.1200.

SECTION III - PHYSICAL DATA

BOILING RANGE (*F): 210

VAPOR DENSITY VS. AIR: Heavler

LIQUID DENSITY VS. WATER: Heavier - 1.10 @ 68°F EVAPORATION RATE VS. BUTYL ACETATE: Slower

SOLUBILITY IN WATER: Partial - White emulsion may be formed

APPEARANCE: White Suspension TYPE OF ODOR: Slightly Aromatic

% VOLATILES, Wt.: <1 - HPA Method 8260

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION

OSHA: N/A

DOT: Not Regulated

FLASH PT. (°F) 306

LBL:

(Method used):

EXTINGUISHING MEDIA: Water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

SPECIAL FIRE FIGHTING PROCEDURES: None.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Continued use on hands may cause dry skin. This product is NOT intended as a hand cleaner. Itritation may occur to eyes, skin and respiratory tract.

MEDICAL CONDITION PRONE TO AGGRAVATION BY EXPOSURE: None known.

EMERGENCY AND PIRST AID PROCEDURES:

Eyes: Plush thoroughly with water. Skin: Wash with soap and water.

Ingestion: Seek medical advice.

SECTION VI - REACTIVITY DATA

PRODUCT STABILITY: Stable.

CONDITIONS TO AVOID: Contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: CO and CO, on burning.

HAZARDOUS POLYMERIZATION: Will not occur.

PAGE 06

- FT LAUDERDALE

SUPERIOR Printing Inks June 25, 2001

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED: Wipe up, contain free material, recover for proper disposal.

WASTE DISPOSAL METHOD: In accordance with Federal, State, and Local regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

VENTILATION: General ventilation or local exhaust ventilation or as specified by Local or State requirements.

PROTECTIVE GLOVES: None required normally. Persons with skin altergies should use gloves.

RESPIRATORY PROTECTION: None required in normal usage.

EYE PROTECTION: None required in normal usage.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX - SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Avoid excessive skin and eye contact. Keep container closed when not in use.

OTHER PRECAUTIONS: FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY. DO NOT REUSE CONTAINER FOR OTHER PURPOSES.

While Superior Printing Ink Company, Inc. believes the data set forth herein are accurate as of the date hereof, Superior Printing Ink Company, Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.

MATERIAL SAFETY DATA SHEET

Sealed Air Corporation Cryovac North America

P. O. Box 464

Duncan, SC 29334-0464

Telephone:

(864) 433-2000

Effective Date:
Date Printed:

12-31-98 5/20/2004

Prepared By: James B. Passmore

PRODUCT IDENTIFICATION

LD935

COMPONENT INFORMATION

In accordance with 29 CFR 1910.1200, this product contains no hazardous components.

PHYSICAL DATA

BOILING POINT: NA VAPOR PRESSURE: NA VAPOR DENSITY: NA SOLUBILITY IN WATER: Nil

APPEARANCE AND ODOR: Clear and odorless

SPECIFIC GRAVITY: 0.91-0.95 MELTING POINT: 100° - 150°C

EVAPORATION RATE (BUTYL ACETATE=1): NA

WATER REACTIVE: NO

FIRE AND EXPLOSION HAZARD DATA

AUTO-IGNITION TEMPERATURE: Not Available

FLAMMABILITY LIMITS: NA

EXTINGUISHING MEDIA: Water, CO2, Foam, Fog, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES. Self-contained Breathing Apparatus

UNUSUAL FIRE AND EXPLOSION HAZARD: Hydrocarbon oxidation products, including

CO and CO₁, can be formed during combustion.

REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: NA HAZARDOUS POLYMERIZATION: Will not occur.

HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Not hazardous.

CARCINOGENICITY: Not listed in NTP, OSHA, or IARC Monographs.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known,

CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: Not required. PROTECTIVE GLOVES: Not normally required. EYE PROTECTION: Not normally required.

VENTILATION: Adequate ventilation or local exhaust to remove fumes when heat scaling or

hot-wire cutting.

OTHER PROTECTIVE CLOTHING AND EQUIPMENT: None

HYGIENIC PRACTICE: No special requirements

PRECAUTIONS FOR SAFE HANDLING AND USE

ACTION TO TAKE FOR SPILLS OR LEAKS: NA

WASTE DISPOSAL: Incineration or landfill in compliance with federal, state and local

regulations

HANDLING AND STORAGE PRECAUTIONS: None

EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW (SARA TITLE 3)

This product does not contain a chemical which is listed in Section 313 above the *de minimus* concentrations.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure activities comply with federal, state, and local laws.

HEALTH

FLAMMARILITY

REACTIVITY

MATERIAL SAFETY DATA SHEET

Product Code:

B092040

MAJESTA 400

SECTION 1: MANUFACTURER IDENTIFICATION

Manufaturer's Name:

Day International Chemical Products Div.

Address:

130 West Second Street, Suite 1700

Dayton, Ohio 45402

Emergency Phone: Name of Preparer:

800-424-9300 CHEMTREC®

Day Chemical Prod. Div

Information Phone:

800-336-8276

Date Printed: **Date Revised** 8/27/2007

08/27/2007

TAKE OF INDOMESTICATE

Component	CAS Number		Pressure @ Temp	Weight Percent
"Glycol Ether DB OSHA PEL: N/E, ACGIH® TLV®; N/E, M/g: 35ppm Hazardous Air Pollutant	112-34-5	.02	77°F	6%
Glycerine OSHA PEL: 10mg/M2, ACGIHD TLVB, TWA: 10mg/M2 as Mist	56-81-5	1,0	68°F	5.2%
*Non-Hazardous Water Dissociab'e Nitrates				1.4%

^{*} Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372. All ingredients are listed on the EPA TSCA Inventory

BOILING POINT / RANGE:

VAPOR DENSITY:

EVAPORATION RATE:

V.O.C. (EPA METHOD 24) lb/gl:

VAPOR PRESSURE:

SOLUBILITY IN WATER:

APPEARANCE AND ODOR:

SPECIFIC GRAVITY JH20=1j:

>212'F

Heavier than air.

Slower than water,

0.9

Not Applicable.

100%

Green Liquid - Mild Odor

1.05

FLASH POINT:

None.

METHOD USED:

TAG CC

FLAMMABLE LIMITS IN AIR BY VOLUME:

None, Aqueous product.

EXTINGUISHING MEDIA:

Use any fire extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES:

Under normal conditions this product does not support combustion. However, as in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved) and full protective (bunker) gear.

UNUSUAL FIRE AND EXPLOSION HAZAROS:

None Known.I

787 781 6930

AMERICAN PAPER

09:S3:06 a.m.

12-10-2009

3 /4

Product Code:

B092040

MAJESTA 400

Page 2 of 3

STABILITY:

Stable

CONDITIONS TO AVOID:

Avoid conditions of excess heat to prolong shelf life.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid mixing with strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

None known,

HAZARDOUS POLYMERIZATION:

Will Not Occur.

SECTION OF HEALTH BAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Not an inhalation hazard in normal industrial use.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Skin and eye contact may cause mild to moderate initation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Prolonged or repeated skin contact may cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Small amounts transferred to the mouth by fingers during use, etc., should not cause injury. Swallowing large amounts of this product may cause nausea, moderate gastro-intestinal imitation, and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC):

This product may cause mild to moderate imitation upon contact with eyes and mild Imitation to skin. No chronic effects are known or expected.

CARCINOGENICITY NTP CARCINOGEN:

No

IARC CARCINOGEN:

No

OSHA CARCINOGEN:

Na

MEDICAL CONDITIONS GENERALY AGGRAVATED BY EXPOSURE:

Skin contact may aggravate pre-existing dermetitis. J

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Hold eyelids open and flush with water for 15 minutes. Contact physician if irritation persists. SKIN: Wash with soap and water, INGESTION: If victim is fully conscious, induce vomiting as directed by medical personnel. Seek medical attention immediately. INHALATION: Move victim to fresh air. Give. oxygen if breathing is labored.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASES OR SPILLED:

Clean up small spills with soap water and a mop. Large spills should be diked and kept from entering the sewer. Soak up large spills with absorbent or transfer liquid into a closed container for later disposal.

WASTE DISPOSAL METHOD:

Product may meet the sewer disposal guidelines in many municipalities. Sewer disposal is governed by EPA Regulations (Clean Water Act) which controls local sewer authorities (POTW). Sewer disposal of spent product may be restricted by discharge limits for specific chemicals set by the POTW and end of pipe chemical levels of the individual user. Check with local POTW before sewer disposing.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool dry area away from sunlight and excess heat. Protect from freezing. When using or transferring this product, wear proper personal protective equipment.

Product Code:

AMERICAN PAPER

B092040

MAJESTA 400

Page 3 of 3

OTHER PRECAUTIONS/DOT INFORMATION::

DOT Proper Shipping Name: Not Regulated, Hazard Class; N/A, ID No.: N/A, Packing Group; N/A

SECTION & CONTROL MEASURES

RESPIRATORY PROTECTION:

No special protection is required under normal conditions of use.

VENTILATION:

No special ventilation required.

PROTECTIVE GLOVES:

Not required under normal conditions of use. For extended exposure wear gloves made of butyl or nitrite rubber.

EYE PROTECTION:

Wear safety glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A personal protective rating of X means you must see your supervisor for guidance. OSHA regulations (29CFR Part 1910, Subpart I) require employers to evaluate Personal Protective Equipment requirements in the workplace.

WORK/HYGIENIC PRACTICES:

Wash with soap and water after product contact with skin.

The information on this MSDS is believed to be accurate as of the date shown in SECTION 1. Since the use of this product is

not under the control of the manufacturer, it is the user's responsibility to determine what constitutes safe usage for a particular product. This form may be reproduced in quantities necessary to meet your requirements.

Varn International, Inc., a Flint Group Company

14909 N. Beck Road Plymouth, Mt 48180

20

Para preguntas sobre el producto, liame a:

(800) 336-VARN(8276)

Para preguntas sobre la salud y la seguridad, liame a: Cuestiones de urgencia en salud y seguridad después

(800) 336-VARN(8276)

del horario comercial:

Contatos de urgencia 24 horas en casos de sinistro:

(800) 391-0698 Prosar (US/Canada) (800) 424-9300 Chemtrec (US/Canada)

Hojas de Seguridad de Materials

I. IDENTIFICACIÓN DEL PRODUCTO Y DE LA COMPAÑÍA

Nombre del producto:

MAJESTA 606

Código del producto:

650-B092136

Código MSDS:

MSS-00940153

Número de revisión:

2

Fecha de revisión:

2012-08-17 09:28:19

II. INFORMACIÓN/COMPOSICIÓN DE LOS INGREDIENTES

CAS# 111-76-2 Nombre químico

%

56-81-5

Ethylene glycol mono-n-butyl ether Givcerina

1 - 5 1 - 5

Propletario Proprietary Surfactant 0.5 - 1.5

Los componentes que no se enumeran no representan un peligro Ilslco ni para la salud según la definición de 29 CFR 1910.1200 (Regia de Comunicación de Peligros).

III. IDENTIFICACIÓN DE RIESGOS

Clasificación HMIS

Salud: 2

inflamabilidad: 0

Reactividad: 0

HMIS Flammability based upon firepoint exemption.

Este producto se incluye en la siguiente clasificación WHMIS:

D₁A D2B

Vias de acceso:

inhalación, ingestión, Contacto con la piet, Contacto con los ojos

Órganos en riesgo:

Riñones, Higado, Piel, Sangre, Ojos, Piel, Ojos, Riñones, Vias respiratorias

Condiciones médicas agravadas: Enlermedades del riñón, Enlermedades del hígado, Enlermedades de la piel, entre ellas, eccema y la sensibilización, Entermedades del ojo, Entermedades

respiratorias, entre ellas, asma y bronquilis

Efectos inmediatos (graves) a la salud a través de la vía de exposición

Inhalación:

¡Dañino/al Puede ocasionar daños sistémicos.

Contacto cutáneo:

Puede ocasionar irritación menor de la piet, plet desgrasada y dermatilis.

Contacto con los

Puede ocasionar irritación, lagrimeo y enrojecimiento menores.

olos: Ingestión:

Dañlno/a si se Inglere. Puede ocasionar envenenamiento sistémico.

Efectos sobre la salud a largo plazo (crónicos)

En los campos

reproductivos y de

No hay dates disponibles para indicar que el producto o algún componente

presente a más del 0,1% pueda ocasionar defectos de nacimiento.

desarrollo:

MAJESTA 606

Mutación genética:

No hay datos disponibles para indicar que el producto o algún componente

presente a más det 0,1% es mutagénico o genotóxico.

inhatactón:

Con la exposición prolongada y/o repetida, puede ocasionar irritación respiratoria menor, mareos, debilidad, fatiga, náuseas y dolor de cabeza.

Contacto cutáneo:

Con el contacto prolongado o repetido, puede ocastonar irritación moderada de la plei, piel desgrasada y dermatitis. No es probable que ocasione daños permanentes. Con la exposición prolongada o repetida, dañino/a si se absorbe a través de la piet. Puede ocasionar Irritación y daños sistémicos graves.

¿Atgún ingrediente de los que conforman este producto aparece en la tista de la OSHA de materiales Identificados como cancerígenos con una cantidad >=0.1% en peso? Si o no IARC 1 & 2A No IARC 2B No NIOSH No OSHA No NTP

IV. MEDIDAS DE PRIMEROS AUXILIOS

Inhalación:

Este material no presenta un pelloro si se inhala. Trasiade a la persona al aire iresco después de una exposición transportada por el aire si se presenta algún

Ojos:

Utilice un lavaojos para gultar el producto gulmico del ojo sin importar el nivel de peligro. Enjuaque el ojo afectado durante al menos veinte minutos. Incline la cabeza para evitar que el producto químico se transfiera al ojo sin contaminar.

Procure asesoramiento médico después del enjuague.

Contacto cutáneo:

Lave con agua y jabón. Procure atención médica si aparece o persiste la

irritación.

tnaestión:

No representa un pellgro en el uso industrial normal. No induzca el vómito. Procure atención médica si aparecen los sintomas. Entregue al proveedor de

atención médica esta MSDS.

V. MEDIDAS CONTRA INCENDIOS

Resumen de Inflamabilidad:

Medios de extinción:

No es combustible

No combustible. Emplee medios extintores apropiados para el

Incendto circundante.

Riesgos de incendio o explosión:

El material no se encenderá ni arderá. Este producto es una mezcla acuosa que no arderá. Si se evapora hasta quedar seco, los residuos sólidos pueden representar un peligro

moderado de Incendio.

Mélodos de protección y tucha contra

incendios:

No arderá; no se dispone de Instrucciones especiales. Emplee

métodos apropiados para los materiales circundantes.

Productos de combustión peligrosa:

Dióxido de carbono, Monóxido de carbono

Punto de inflamación:

No hay datos. El material tiene base de agua y no se

inflamará.

Firepoint:

Firepoint determinó a ser >212F (100C)

VI. MEDIDAS EN CASO DE EMISIÓN ACCIDENTAL

Equipo v precauciones personales:

La exposición al material derramado puede ser trritante o dañina. Siga las recomendaciones de los equipos de protección personal que se encuentran en la Sección VIII de este MSDS. Puede ser necesario lomar precauciones adicionales en base a las circunstancias espectales creadas por el derrame, entre ettas: et material derramado, la cantidad del derrame, el área en el cual ocurrió el derrame. También considere los conocimientos de los empleados en el área que responden al derrame.

VII. MANIPULACIÓN Y ALMACENAMIENTO

Uso de producto:

Lithographic Fountain Concentrate

MAJESTA 606

Precauciones en la manipulación:

Material dañino o irritante. Evite el contacto y evite respirar el material. Emplee sólo en un área bien ventilada. Lavese minuclosamente después de

manipulario/a

Al igual que con todos los productos químicos, se debe seguir las prácticas de

la buena higiene Industrial al manejar este material.

Evite el contacto con el material, evite respirar el polvo o humos, emplee sólo en

un área bien ventilada.

Condiciones de almacenamiento: No permita que se congete. Mantenga el recipiente cerrado cuando no to

emplea

VIII. CONTROLES A LA EXPOSICIÓN/PROTECCIÓN PERSONAL

Medidas técnicas:

No hay limites de exposición para los componentes de este producto. No es probable que se requieran controles de ingeniería para mantener la comodidad de los operarios bajo condiciones normales de uso.

Protección para el sistema respiratorio: Protección ocular:

Protección cutánea:

No se requiere protección respiratoria bajo las condiciones normales de uso.

Use antiparras de seguridad al manipular este producto.

Normalmente no se considera un peligro para la plei. Donde el uso puede producir contacto con la piel, practique buena higlene personal y utilice una crema contra las dermatitis y/o guantes impermeables estilo quirurgico. Lave las manos y otras áreas expuestas con agua y un jabón suave antes de comer,

tomar y al dejar el trabajo.

Guantes:

111-76-2

56-81-5

Usar material impermeable. Goma butllica o Nitrilo

Pautas para la exposición:

Número CAS Nombre químico Limites de

ACGIH TLV exposición OSHA - TWA Ethylene glycol mono-n-50 ppm TWA; 240 mg/m3 TWA 20 ppm TWA butyl ether prevent or raduce skin

absorption TOTAL DUST: 15 MG/M3 10 MG/M3 TWA No STEL Esto no está aquil TWA, RESPIRABLE (TOTAL

ACGIH

STEL

No STEL

No STEL

IDLH

700 ppm IDLH

Esto no está aquil

FRACTION: 5 MG/MJ TWA Propletario Proprietary Surfactant

DUST/PARTICUL

ATE) No TLV

5.66

Glycerine

IX. PROPIEDADES QUÍMICAS Y FÍSICAS Estado físico: Líquido

Color: Verde Olor: Leve Solubilidad en agua: Completo/a; 100%

4.76

Elementos químicos volátiles orgánicos. porcentaje por peso:

Volátiles, porcentaje por volumen: VOC lb/gal

0.42 Gravedad especifica: 1.07 Densidad aparente (Lb/Gai): 8.91 Densidad aparente (kg/L): 1.07

X. ESTABILIDAD Y REACTIVIDAD

Establildad: Condiciones que se Estable bajo condiciones normales.

Ninguno/a conocido/a.

deben evitar:

MAJESTA 606

Materiales que se deben evitar por incompatibilidad

Agentes oxidantes luertes

quimica:

XI. INFORMACIÓN TOXICOLÓGICA

Datos sobre componentes toxicológicos (NiOSH):

Número CAS Nombre químico

LD50/LC50

111-76-2

Ethylene glycol mono-n-butyl ether

Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg: Dermal LD50 Rat 2270 mg/kg: Dermal LD50 Rabbit 220 mg/kg Oral LD50 Rat 12600 mg/kg: Dermal LD50 Rat >21900 mg/kg

56-81-5

Propietario

Glycerine Proprietary Surfactant Oral LD50 Rat 4 g/kg; Dermal LD50 Rabbit 6540 µL/kg

XII. INFORMACIÓN ECOLÓGICA

Ecotoxicidad

No hay datos disponibles sobre la preparación misma. No permitir que

entre en los desagues o cursos de agua.

USDOT Marine Pollutants USDOT Severe Marine

Esto no está aquí Esto no está aqui

Poliutants

XIII. CONSIDERACIONES SOBRE ELIMINACIÓN DE DESECHOS

Descripción de los

No se espera que el materiat usado o desechado sea un desperdicio peligroso.

desechos det producto usado: Métodos de etimtπactón:

XIV. INFORMACIÓN SOBRE LA REGLAMENTACIÓN

Estado TSCA

Todos ingredientes de este producto son listados o son excluidos de la lista en el U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Nombre químico	No CAS	Regulactón	Porcentaje
Esto no está aqui		CERCLA	
2-Butoxyethanot	111-76-2	NPRI (Cdn)	4.75
Esto no está aquí		PROP 65	
Glycol Ethers N-230	111-76-2	SARA 313	4.75
Magnesium nitrate (Nitrate Compound)	t0377-60-3	SARA 313	2.78
Esto no está aqui		SARA EHS	

Los siguientes articulos requieren una notificación de exportación para TSCA

Nombre químico

Sección 12b de la lista TSCA

Esto no está aqui

Este producto ha sido clasificado de acuerdo al criterio de peligro de las Regulaciones Canadienses sobre Productos Controlados y la Hoja de Datos de Seguridad de Materiales contiene información requerida por las Regulaciones sobre Productos Controlados.

XV. INFORMACIÓN DE TRANSPORTE

49CFR/TDG - Bulk:

No Restringido/a

[ATA - Bulk:

No Restringido/a

IMDG - Bulk:

No Restringido/a

XVI. INFORMACIÓN ADICIONAL

Referencias:

MAJESTA 606

Pégina 4 de 5

Descargo de responsabilidad: Varn International, Inc. a Fiint Group Company ha preparado estas "Hojas de seguridad de materials" (MSDS) cumpliendo con la norma 29 CFR 1910.1022, se sobreentiende que sus clientes pueden utilizar estos MSDS para cumplir con dicha seccion y se presume que los datos suministrados aqui son exactos en la fecha en que se suministran; Sin embargo, este MSDS no constituye una garantia al respecto.



ALLIED PRESSROOM CHEMISTRY MATERIAL SAFETY DATA SHEET

SAPARO SINGERA	SE	CTION	11 PRO	DUCT IDE	NTIFICA'	TION	AND USE	
PRODUCT IDENTIFIER: POWDERED SYSTEMS CLEANER (Detergent mixtures for cleaning re-circulating water systems)				0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe HEALTH HAZARD: 1 FIRE HAZARD: 0				
MANUFACTURER'S NAME: ALLIED PRESSROOM CHEMISTRY.				REACTIVITY:				
STREET ADDRESS 2040 LEE STREET, HOLLYWOOD, FLORIDA, 33020, USA				B A	17 32			
OFFICE TELEPHONE: FAX. 954-923-6462		24 HR. EMERGENCY TELE 800-424-9300 CHEMTRE		GENCY TELEPH 00 CHEMTREC	HONE		Protective Apron	
THIS IS AN INDUSTRIAL CHEMICAL PRODUCT. ALL INDUSTRIAL CHEMICAL PRODUCTS POSE AN INHERENT HEALTH RISK, BEFORE USE ALWAYS READ COMPLETE LABEL AND MSDS FOR SAFE HANDLING PROCEDURES					DO NOT BREATHE VAI SKIN. DO NOT GET ON	PORS. DO NOT GET IN EYES, CLOTHING. DO NOT INGEST		
		SECT	FION 2	– INGRED	IENT INF	ORM	ATION	
INGREDIENTS *These ingredients are subject to the rep	REDIENTS % CAS HAZARO DATA NUMBER NUMBER							
requirements of SARA 1/3 and 40 CFR	<i></i>		Cons	sists of a mixture	of detergent s	alts		
							ON TOOL ACT (TECA)	
	ALL INGRE	EDIENTS					ONTROL ACT (TSCA)	
BALL A STANDARD STAND	yete i	PHONE		ION 3 - PH	YSICAL	DA I A	经验证据	SPECIFIC GRAVITY
PHYSICAL STATE Solid powder	ODOR A! White gra negligible	anular pov	nular powders Soluble Step			Step 1 Step 2	is mildly aikaline is mildly acidic	1.0
VAPOR PRESSURE (MM Hg) Negligible @ 20°C	VAPOR E (AIR=1) >1	DENSITY			Butyl acetate = 1) Not ap		(G POINT (*F) plicable	V.O C.'s 0 % by Mass 0 lb per Gallon (0 g/l)
	NEW YORK	SEC	TION 4	- FIRE AN	D EXPLO	SION	DATA	
FLAMMABILITY YES NO		IF YE	S. UNDE	R ITIONS? • No	t applicable			
EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES: Line and send problems apparatus if needed				IES: if needed.				
THE SUPPLEMENT (ST) AND METHOD LIPPER FLAMMABLE LIMIT			- 11	LOWER FLAMMABLE LIMIT (% BY VOLUME): Unknown				
None by TCC (% BY VOLUME) : Unknown (% BY VOLUME). Unknown					innown			
(°C) Not known Oxides of carbon .								
EXPLOSION DATA • NOT KNO	OWN	SEN:	SITIVITY	TO IMPACT	IMPACT SENSITIVITY TO STATIC DISCHARGE NO			
SECTION 5 - REACTIVITY DATA								
CHEMICAL STABILITY YES ■ NO □								
INCOMPATIBILTY WITH OTHER SUBSTANCES None known								
HAZARDOUS DECOMPOSITION PRODUCTS: In contact with open flame or incandescent material will liberate carbon dioxide, carbon monoxide				TI	This product is not photochemically reactive			



ALLIED PRESSROOM CHEMISTRY MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFIER . ALLIED POWDERED SYSTEMS CLEANER

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY

SKIN CONTACT

SKIN ABSORPTION []

EYE CONTACT

INHALATION III

INGESTION =

ACUTE EXPOSURE TO PRODUCT:

Inhalation - breathing of dusts will imitate nasal passages.

Eye - Will cause severe irritation, burning, redness and tearing. Step 1 is a strong detergent mixture. May result in comeal damage Skin - Can cause irritation, on prolonged contact due to strong detergency of Step 1

Ingestion causes irritation of the digestive tract.

CHRONIC EXPOSURE TO PRODUCT: Prolonged skin contact may aggravate an existing dermatitis.

CARCINOGENICITY: No ingredient present at greater than 0.1 % is identified as a carcinogen by OSHA, IARC or NTP

TARGET ORGAN EFFECTS: Eye, skin imitant

EMERGENCY FIRST AID PROCEDURES:

EYES: Flush with running water for at least 15 minutes. Seek medical attention.

SKIN: wash affected area with soap and water. Remove contaminated clothing and launder before re-use.

INHALATION: Remove victim to fresh air. Administer oxygen and/or artificial respiration if breathing difficulties occur. Seek medical attention.

INGESTION: Do not induce vomiting. Dilute by drinking water and seek immediate medical attention.

SECTION 7 - PREVENTATIVE MEASURES

GLOVES

RESPIRATOR: Use NIOSH approved SCBA in

Nitrile for incidental, non-immersion contact.

emergency situations or confined areas.

Splash proof goggles or face shield

CLOTHING: Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS): No special requirements

LEAK AND SPILL PROCEDURE: Contain spill. Take precautions to prevent contamination of ground and surface waters. Recover spilled material using absorbent material such as vermiculite and sweep into closed containers for disposal.

WASTE DISPOSAL: Contaminated vermiculite or porous surface must be disposed of in a permitted waste facility. Recovered liquids may be reprocessed or incinerated in a permitted waste facility. In all cases material should be disposed of in accordance with all applicable regulations.

HANDLING PROCEDURES AND EQUIPMENT: Keep container closed when not in use. Store only in closed, properly labeled containers. Store in a cool, dry, well ventilated area. Treat empty containers as containing hazardous residues. Use product in a manner that does not spread dust clouds n the atmosphere.

SECTION 8 - ADDITIONAL INFORMATION

CALIFORNIA PROPOSITION 65; This regulation does not address "de minimis" levels. Therefore even trace amounts of chemicals on these lists must be identified. Trace quantities refer low levels of materials whose exact concentrations may not always be determined because of their minuteness.

This product contains the following chemicals known by the state of California to cause cancer; None

This product contains the following chemicals known by the state of California to cause reproductive harm: None

SHIPPING INFORMATION: Not regulated for shipping purposes

SECTION 9 – PREPARATION AND DATE OF MSDS

PREPARED BY (GROUP DEPARTMENT, ETC.)
ALLIED PRESSROOM CHEMISTRY TECHNICAL SERVICES DEPARTMENT

PHONE NUMBER 1-800-327-8467

DATE

The above information is believed to be correct as of the date hereof and is based on data supplied by raw material suppliers, however, no warranty of merchantability, filtness for use, or any other warranty is expressed or is to be impited regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with each use. Since the Information contained herein may be applied under conditions beyond our control and with which we are unfamiliar, and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its' use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assume risk of his use thereof.



Material Safety Duty Shoet MSDS: 11953 - REVITCL 02220 Plant #: 40% Insertco mambers Status: Panding Formula: NOT GIVEN Fore Minter 107 S.E.M. Specification: NOT GIVEN Kayword: MOT GIVEN Synonyms: NOT GIVEN Stock Items: NOT GIVEN Manufacturer VARN PRODUCTS 905 S. WESTWOOD Phone: 800-336-8276 ADDISON, IL 60101 Emergency: Supplier VARN PRODUCTS 905 S. WESTWOOD Phone: 800-336-8276 ADDISON, IL 60101 Emergency: Physical/Chemical Characteristics Boiling Foint: GT _1____ Melting Point NG Freezing Point Nu Pour Point He Softening Point: M2 Specific Gravity Eq 1.0 Vapor Fressure Na CL OM CAL PE. Vapor Density MA Percent Volatiles: MG Evaporation Rate: LT ETHER = 1. SLOWER. PH Hig Molecular Weight: MG Viscosity NG Solubility in Water ..: 60%. Odor/Appearance/Other Characteristics: STRAW COLORED LIQUID / MILD ODOR / MATERIAL VOC: 0.97 LB/GL (116 G/L). Fire and Explosion Data Closed Cup Flash Pt. .: EQ 116 F TAG CC. Open Cup Flash Point .: NG Fire Point NG Auto Ignition NG Lower Explosion Limit : EQ 2.0 Upper Explosion Limit : EQ 12.0 Shipping Regulations UN/NA Number: NG NA1993 DOT Hazard Class: II COMBUSTIBLE LIG

Shipping Name: COMBUSTIBLE LIQUID H.D.S. (1986) DenileL.

Shipping Label: NOT GIVEN

Material Safet, Data Shest MSOS: 11955

MSDS: 11955 - DEVITOR 02220

Plant #: 404 Insertoo -******************************** Page 2

Prepared

Preparer's Name & Title: VARN PRODUCTS CO.

Preparation Date: 10/30/92

Component(s):

ETHYLENE GLYCOL

OSHA Pel: 50 ppm Na ma ma ma ACGIH TLV: 50 ppm Na ma ma ma STEL: NG ppm NG ma ma

Percent of Product: EQ 21 Note: FEL & TLV: LEGLING ROAD ATERMOTE 2.1 : NO P

2-BUTOXY ETHANOL

OSHA Pel: 25 ppm 15 mg m ACGIH TLV: 25 ppm 15 mg m STEL: MG ppm MU mg m3

Percent of Product: BT 4% CAS No.: 111762 Note: FEL & TLV: SKIN / VAPOR PRESCURE: 0.9 MM NG @ 77F.

ISOPROPANOL

Percent of Product: EQ 5% CAS No.: 67530

Note: VAPOR PRESSURE: 31.2 MM HG @ 68 F.

Text Section(s)

MANUFACTURER IDENTIFICATION

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

PRODUCT NAME: REVITOL

PRODUCT CODE: 02220

HMIS CODES: Hall F #2 Rad P C

EMERGENCY PHONE: (800) 421-9000

INFORMATION PHONE: (800) 336-8275

MANUFACTURER'S NAME & ADDRESS:

Materiai Safst. MSDS: 11955 - KE'IFIL (2.1 Plant #: 401 Immert.: Fee

> VARM PRODUCTS 905 SOUTH WELFUODD ADDISON, ILLINGIA 6010.

HAZARDOUS INGREDIENTS/SARA 111 INFORMATION

SEE COMPONENT PAGE(S) FOR ADDITIONAL INFORMATION.

HAZARDOUS COMPONENTS:

*ETHYLENE GLYCOL *2-BUTOXY ETHATIOL ISOPROPANOL

* Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

.

ALL INGREDIENTS ARE LISTED IN THE EPA TSCA INVENTORY.

PHYSICAL/CHEMICAL CHARACTERISTICS

SEE DATA PAGES FOR ADDITIONAL INTOPHATION.

FIRE AND EXPLOSION HAZARD CATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

EXTINGUISHING MEDIA: FOAM, ALLOHOL FOAM, CO2, DRY CHEMICAL, WATER FOO

SPECIAL FIREFIGHTING PROCEDURES: AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (MSHA/NIOSH APPROVED) AND FULL PROTECTIVE GEAR.

UNUSUAL FIRE AND EXPLOSION MAZARDS: MONE KNOWN.

REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: AVOID CONDITIONS OF EXCESSIVE HEAT TO INCREASE SHELF

LIFE.

Material Safety Data Sheet MSDS: 11955

MSDS: 11955 REVITOL 02220

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID STRONG OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: SURMING WILL PRODUCE OXIDES OF CARBON AND DENSE SMOKE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND EXCEPTOMS OF EXPOSURT: NO 19/245 EN RORMAL INDUSTRIAL USE.

SKIN AND EYE CONTACT HEALTH RICKS AME SYMPTOMS OF EXPOSUPE: PROLUMESED OR REPEATED CONTACT WITH SKIN MAY CAUSE INDITATION CONTACT MAN CAUSE EYE IRRITATION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: MARKHOUL IT MESORBED THROUGH THE SKIN. SKIN CONTACT WILL RESULT IN ABSORPTION AND SCHENIALLY CONTRIBUTE TO THE OVERALL EXPOSURE TO THE CHEMICAL CHBUICK ETHANOL.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: INGREDIENTS IN THIS PRODUCT ARE TOXIC. INGESTION MAY CAUSE NAUSEA, MODERATE GASTRO-INTESTINAL IRRITATION, DIARRHEA AND POSSIBLE DAMAGE TO VITAL ORGAND, FOLLOW FIRST AID PROCEDURES.

HEALTH HAZARDS (ACUTE AND CHRONIC): THIS PRODUCT MAY PRODUCE MILD TO MODERATE IRRITATION UPON CONTACT WITH EYES AND MILD IRRITATION WITH SKIN. ETHYLENE GLYCOL HAS BEEN IDENTIFIED AS A PROBABLE BIRTH DEFECT HAZARD BASED ON LABORATORY ANIMAL DATA.

CARCINOGENICITY: THIS PRODUCT CONTAINS NO KNOWN CARCINOGENS.

NTP: NO

IARC MONOGRAPHS: NO OSHA REGULATED: NO

MEDICAL CONDITIONS CENERALLY ASSRAYATED BY EXPOURE: UKIN CONTACT MAY AGGRAVATE PRE-EXISTING DERMATITIS.

EMERGENCY AND FIRST AID PROCESURES

EYES: FLUSH WITH WATER FOR 15 MINITELL SEED MICION STALL I TO LE IRRITATION PERSISTS.

Material Safety Cath Lilt MSDS: 11965 - REVISOR 02201 40 - 11 - 1

Plant #: 404 Inserted territor trapasant come to the territory of

SKIN: Wash will Roa with matter

INHALATION: NOVE TO DIE

INGESTION: IF VICTIM I TRECTORS, EMDUCE TITLE ALLER TO BY MECHAL PERSONNEL. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

PRECAUTIONS FOR SAFE MANDLING WARD USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR OPILLED: SOAK UP ON ABSORBENT MATERIAL OR TRANSFER LIQUID INTO A CLOSED CONTAINER FOR LATER DISPOSAL. DIKE SPILL AND KEEP FROM ENTERING SEWER.

WASTE DISPOSAL METHOD: DILUTED MATERIAL MAY MEET SEWER DISPOSAL GUIDELINES IN SOME LOCALITIES. DO NOT POUR UNDILUTED CONCENTRATE, AS SUPPLIED, DOWN SEWER. CONTACT A LOCAL SEWER AUTHORITIES BEFORE DISPOSAL.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE IN A COOL, DRY AREA AWAY FROM SUNLIGHT AND EXCESS HEAT. KEEP FROM FREEZING. AVOID BREATHING MIST OR VAPORS. AVOID SKIN CONTACT.

OTHER PRECAUTIONS: WHEN TRANSFERRING OR USING THIS PRODUCT, WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT.

CONTAINS NO CHEMICALS FOUND ON THE FALIFORNIA FROMOSITION US LICT.

PROPER SHIPPING MAME: COMBUSTIZEE LIQUID N.O.S. (ISOFRUPAMOL)

UN NUMBER: NA 1993 PACKING GROUP: III

PRODUCT IS CLASSED AS AN OSMA CLASS II CONSUGRISLE LIQUID

CONTROL MEASURES

RESPIRATORY PROTECTION: NO SPECIAL PROTECTION IS REQUIRED UNDER NORMAL CONDITIONS OF USE.

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.

PROTECTIVE GLOVES: USE GLOVES SUCH AS BUTYL OR NITRILE PUBBER.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS.

2001 11895

Material Safety Data . est MSDS: 11955 - REVITOL 02000

Plant #: 404 Insertoo esser a communication de la communication de

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NOT NECESSARY.

WORKZHYGIENIC PRACTICES: WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT.

SPECIAL NOTES

DISCLAIMER: THE INFORMATION ON THIS MSDS IS ACCURATE AS OF THE DATE SHOWN IN THE DATA PAGES. SINCE THE USE OF THIS PRODUCT IS NOT IN THE CONTROL OF VARN, IT IS THE USER'S RESPONSIBILITY TO DETERMINE WHAT CONSTITUTES SAFE USAGE FOR A PARTICULAR PURPOSE. THIS FORM MAY DE REPRODUCED LOCALLY IN ANY QUANTITIES NECESSARY TO MEET YOUR REQUIREMENTS.

End of MSDS

Material Safety Data Sheet acc. to ISO/DIS 11014

Page 1/4

Printing data 10/09/2008

Reviewed on 10/09/2008

- 1 Identification of substance
- · Product details
- · Trade name. Velocity Plate Cleaner
- · Article number: C514
- · Application of the substance / the preparation Surface cleaning
- · Manufacturer/Supplier: Printers' Service 26 Blanchard Street Newark, NJ 07105
- · Information department: 1-973-589-7800 (MSDS revised 10/9/2008)
- · Emergency information: CHEMTREC (24 hr) 1-800-424-9300

2 Composition/Data on components

- · Chemical characterization
- · Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:

64741-41-9 Naphtha (petroloum), heavy straight-run Xn, Xi, R 38/38-65

50 - 70%

7558-80-7 sodium dihydro phosphate

5 - 10%

XI, R 36

56-81-5 glycerol

· Additional information: For the wording of the listed risk phrases refer to section 16.

5 - 10%

3 Hazards identification

- · Hazard description:
- Hermful
- Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Flammable.

Harmful by inhelation, in contact with skin and if swallowed

- imitating to eyes, respiratory system and skin.
- Classification system:

The classification was made according to the latest editions of international substances lists, and expended upon from company and literature data.

NFPA ratings (scale 0 - 4)

Health = 1 Fire = 2

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 1

Fire = 2

Reactivity = 0

4 First ald measures

· General information:

Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air, if required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation

· After skin contact: Immediately wash with water and soep and rinse thoroughly.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: Immediately call a doctor.

- USA

Page 2/4

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 10/09/2008

Reviewed on 10/09/2008

Trade name: Velocity Plate Cleaner

(Contd. of page 1)

5 Fire fighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

· Measures for environmental protection:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, dietomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

· Handling:

· Information for safe handling

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Storage:

Requirements to be met by storerooms and receptacles. No special requirements

Information about storage in one common storage facility. Not required.

Further information about storage conditions. Keep receptacle lightly sealed.

8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:

56-81-5 glycerol

PEL 15*, 5** mg/m3

*Total dust **Respirable fraction

- Additional information. The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 3)

Page 3/4

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 10/09/2008

Reviewed on 10/09/2008

Trade name: Velocity Plate Cleaner

Panetration time of glove material

(Conld. of page 2)

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye protection: Tightly sealed goggles

9 Physical and chemical properties

General Information

Form: Fluid Calor: Clear Odor. Characteristic

Change in condition

Melling point/Melling range: N/A

Boiling point/Boiling range: 100°C (212°F) *Flash point: 42°C (108°F)

Ignition temperature: 400.0°C (752°F)

Auto igniting: Product is not settigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are

possible

Explosion limits:

Lower: 07 Vol % Upper: 6.0 Vol %

Vapor pressure at 20°C (68°F): 17.8 hPa (13 mm Hg)

Density at 20°C (68°F): 0 91 q/cm²

· Solubility in / Miscibility with

Water: Dispersible.

Additional information:

Vapor pressure minus water - 4.12 hPa (3.1 mm Hg) · VOC 560.1 g/l / 4.67 lb/ql

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known.
- · Dangerous products of decomposition: Carbon monoxide and carbon dioxide

11 Toxicological Information

Acute toxicity:

LD/LC50 values that are relevant for classification:

64741-41-9 Naphtha (petroleum), heavy straight-run

Oral 25000 mg/kg (rat) LD50 Inhalative LC50/4 h 700 mg/l (rat)

· Primary irritant effect:

· on the skin: Imitant to skin and mucous membranes.

on the eye. Imtaling effect.

Sensitization. No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations Hamful

12 Ecological Information

General notes:

Water hazard class 1 (Self-assessment) slightly hazardous for water

(Contd. on page 4)

Page 4/4

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 10/09/2008

Reviewed on 10/09/2008

01-26-2009

Trade name: Velocity Plate Cleaner

(Contd. of page 3)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Product:
- : Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations
- · Recommended cleansing agent: Water, if necessary with cleansing agents

14 Transport Information

Hazard class:

3

Identification number

NA1993

Packing group:

111

Proper shipping name (technical name): COMBUSTIBLE LIQUID, N.O.S (Naphtha (petroleum), heavy straight-run)

Packaging group:

III

15 Regulations

- Sera
- Section 355 (extremely hazardous substances):

None of the ingradient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Taxic Substances Control Act).

All ingredients are listed.

- Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

- Cencerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

- IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.
- · NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value aslablished by ACGIH)

None of the ingredients is listed.

MAK (German Meximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Haeith)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

- National regulations:
- Water hazard class Water hazard class 1 (Self-assessment) slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS:
- Contact: CHEMTREC (24hr) 1-800-424-9300, Printers Service 1-973-589-7800
- * Data compared to the previous version altered.

MATERIAL SAFETY DATA SHEET

WASH V-120

PRODUCT CODE: B010003

Page: 1

Revised: January 03, 2005

HMIS CODES: H F R P

1 2 0 X

SECTION 1 - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Day International Chemical Products Div.

ADDRESS

: 905 South Westwood Avenue Addison, Illinois 60101

EMERGENCY PHONE: 800-424-9300

INFORMATION PHONE: 800-336-8276

NAME OF PREPARER: DAY Chemical Prod. Div.

DATE PRINTED: 01/03/2005

REASON REVISED: Update; Supersedes All Previous Revisions.

SECTION 2 - HAZARDOUS	INGREDIENTS/SARA	III INFO	RMATION	
REPORTABLE COMPONENTS	CAS NUMBER	VAPOR MM HG	PRESSURE © TEMP	WEIGHT PERCENT
Petroleum Naphtha	64742-47-8	2.8	68°F	43
OSHA PEL: 500ppm TWA, ACGIH® TLV®: N/E, Mfg Petroleum Naphtha OSHA PEL: N/E, ACGIH® TLV®: N/E, Mfg: 50ppm	64742-95-6	2.7	68°F	32
* 1,2,4-Trimethyl Benzene	95-63-6			12
Dipropylene Glycol Methyl Ether	34590-94-8	0.17	68°F	6
OSHA PEL: 100ppm, ACGIH® TLV®, TWA: 100ppm	, STEL: 150ppm			
p-mentha-1,8-diene OSHA PEL: N/E, ACGIH [®] TLV [®] : N/E, Mfg: 125pp	5989-27-5 pm	2.0	68°F	2
* Xylenes Hazardous Air Pollutant	1330-20-7			1

^{*} Indicates toxic chemicalls! subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372. All ingred ents are listed on the EPA TSCA Inventory.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE/POINT: 310°F - 356°F VAPOR DENSITY: Heavier than air.

SPECIFIC GRAVITY (H20=1): .83

EVAPORATION RATE: Slower than n-Butyl Acetate.

V.O.C. (EPA METHOD 24): 6.77 lb/gl VAPOR PRESSURE (MM HG @ 20°C): 2.6

SOLUBILITY IN WATER: Emulsible

APPEARANCE AND ODOR: Yellow Liquid - Petroleum Odor

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 106°F

METHOD USED: TAG CC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0%

UPPER: 6.5%

EXTINGUISHING MEDIA:

Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog.

SPECIAL FIREFIGHTING PROCEDURES:

As in any fire, wear self-contained breathing apparatus IMSHA/NIOSH approvedt and full protective gear. Water may not be effective to extinguish fire. Use water spray to cool fire-exposed containers and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Treat as Petroleum Fire

WASH V-120

Revised:

Page: 2 January 03, 2005

SECTION 5 - REACTIVITY DATA

STABILITY:

Stable

CONDITIONS TO AVOID:

Avoid heat, sparks, llame and other sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid mixing with strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Burning will produce oxides of carbon and dense smake.

HAZARDOUS POLYMERIZATION:

Will Not Occur

SECTION 6 - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Breathing high concentrations of vapors will cause irritation of the nose and throat. Signs of central nervous system depression such as headache, drowsiness, dizziness and nausea may be experienced with overexposure.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Skin and eye contact may cause moderate to severe irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Single prolonged exposure is not likely to result in the product being absorbed through the skin in harmful amounts.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Ingestion of this product will cause nausea, gastro-intestinal irritation, diarrhea and possible damage to vital organs. Follow first aid procedures.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Repeated or abusive breathing of concentrated vapors may effect pulmonary, cardiovascular, and central nervous systems. Repeated skin contact will dry out and crack skin. Aspiration hazard if swallowed; aspiration of product into the lungs can cause chemical pneumonitis

CARCINOGENICITY: NTP CARCINOGEN: No

IARC MONOGRAPHS: No

OSHA REGULATED: No

This product contains no known carcinogens.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Skin contact may aggravate pre-existing dermatitis. Inhalation of vapors may aggravate pre-existing asihma like conditions

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air. Give oxygen if breathing is labored. Apply artificial respiration if not breathing. Seek medical help. SKIN: Remove all contaminated clothing and shoes. Wash with soap and water. Do not reuse clothing and shoes until cleaned EYES-Flush eyes with plenty of water white removing any contact lenses. Hold eyelids open and continue flushing for at least L5 minutes. INGESTION: DO NOT INDUCE vomiting. If vomiting occurs spanlaneously, keep head below hips to prevent aspiration of liquid into the lungs. Seek medical attention immediately.

MATERIAL SAFETY DATA SHEET

WASH V-120

Page: 3

Revised:

January 03, 2005

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Ellminate all ignition sources. Spills should be diked and must be kept from entering the sewer. Soak up with absorbent or transfer liquid into a closed container for later disposal. Use spark-proof tools and explosion proof equipment.

WASTE DISPOSAL METHOD:

If this product as supplied, becomes a waste it is regulated by RCRA as Ignitable Waste, EPA I.D. #D001. Suitable methods of disposal include reclamation and fuel blending. Contact a Licensed Hazardous Waste Hauler for more information.

PRECAUTIONS TO BETAKEN IN HANDLING AND STORING:

Containers should be grounded and bonded before transferring product. Store in the original closed container away from sunlight, excess heat, sparks, flames and other sources of ignition. Avoid skin or eye contact. Avoid breathing vapors. When transferring or using this product, wear proper personal protective equipment. Store and handle as a Combustible Liquid.

OTHER PRECAUTIONS/DOT INFORMATION:

DOT Proper Shipping Name. Combustible Liquid n.o.s. (Naphthal, Hazard Class: Combustible Liquid, ID No.: NA1993, Packing Group: III Non-bulk packagings not regulated as per 49CFR 173.150 (1)(2). Product is classified as an OSHA Class II Combustible Liquid

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION:

The use of respiratory protection is advised when concentrations exceed the established exposure limits in SECTION 2. Depending on the airborne concentration, use a respirator with appropriate organic vapor cartridge (NIOSH approved).

VENTILATION:

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits in SECTION 2, additional general ventilation or local exhaust systems may be required.

PROTECTIVE GLOVES:

Wear solvent resistant gloves made of nitrile or butyl rubber

EYE PROTECTION:

Wear safely glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A personal protective rating of X means you must see your supervisor for guidance. OSHA regulations 129CFR Part 1910, Subpart II require employers to evaluate Personal Protective Equipment requirements in the workplace.

WORK/HYGIENIC PRACTICES:

Wash with soop and water after product contact with skin.

SECTION 9 - DISCLAIMER

The information on this MSDS is believed to be accurate as of the date shown in SECTION 1. Since the use of this product is not under the control of DAY Chemical Products Division, it is the user's responsibility to determine what constitutes sale usage for a particular product. This form may be reproduced in quantities necessary to meet your requirements

PLATE CLEANER & PRESERVER

DATE: 1/1/2014

1. CHEMICAL NAME AND COMPANY IDENTIFICATION

Tower Products, Inc. Formulated/Manufactured By:

2703 Freemansburg Avenue

Easton, PA 18045

Information Telephone Number:

1-800-527-8626 or 610-253-6206

For Chemical Spill Emergency Call:

CHEMTREC: 1-800-424-9300

Product Name:

PLATE CLEANER & PRESERVER

(Plate Cleaner, Finisher and Preserver for CTP Plates)

CAS Number:

Mixture - Not Established

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable Liquids (Category 4)

Skin Irritation (Category 3)

Eve Irritation (Category 2B)

GHS label elements, including hazard and precautionary statements

Pictogram(s)

None

Signal Word

WARNING!

Hazard statement(s)

H227: COMBUSTIBLE LIQUID.

H316: CAUSES MILD SKIN IRRITATION.

H320: CAUSES EYE IRRITATION.

Precautionary statement(s)

Prevention:

P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES.

NO SMOKING.

P264: WASH SKIN THOROUGHLY AFTER HANDLING.

Response:

P370+P378: IN CASE OF FIRE: USE DRY CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH.

P302+P352: IF ON SKIN: WASH WITH PLENTY OF WATER.

P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT

LENSES. IF PRESENT AND EASY TO DO. CONTINUE RINSING.

Storage:

P403+P233: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

Disposal:

P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL

REGULATIONS.

HMIS Classification

Health Hazard: 2

Flammability: 2

Physical Hazard: 0

Personal Protection: B

PLATE CLEANER & PRESERVER

DATE: 1/1/2014·

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS Number	*Concentration (weight)
Aliphatic Hydrocarbon	64742-48-9	10-20%
Corn Syrup	68131-37-3	1-10%
Polyethylene Glycol 300	25322-68-3	1-10%

^{*} In accordance with paragraph (i) of §1910.1200, exact chemical percentages (concentration) of composition have been withheld as a trade secret.

4. FIRST AID MEASURES

Exposure Routes: Inhalation, Ingestion, Skin

Eye Contact: Flush with large volume of water for at least 15 minutes. Get immediate medical attention.

Inhalation: Remove to fresh air. Get immediate medical attention. Ingestion: Get immediate medical attention. Do not induce vomiting.

Skin Contact: Flush area with large amounts of water for at least 15 minutes. Get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical or carbon dioxide.

Specific Hazards: Combustible Liquid. Upon combustion, the product may form carbon monoxide and other organic

compounds. Product containers may rupture from vapor pressure when exposed to heat from fire. Special protective equipment for fire-fighters: Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions and protective equipment:

Respiratory Protection: Use supplied air equipment or respirators with proper NIOSH approved cartridges.

Protective Gloves: Impervious or chemical resistant gloves (consult safety equipment supplier).

Eye Protection: Chemical splash goggles recommended against potential eye contact. Other Protective Clothing and Equipment: Safety shoes and aprons recommended.

Methods for Clean-Up:

Minor Spills: Absorb material with ground clay, vermiculite, sand, or similar absorbent material and place into containers for disposal according to local and/or state regulations.

Major Spills: Dike and contain spill. Eliminate potential sources of ignition, and shut off source of spill if possible. Remove liquid by chemical vacuum, absorbent material, or other safe and approved methods, and place into containers for disposal according to local and/or state regulations. Flush area with water to remove residue, and remove flushed solutions as above.

7. HANDLING AND STORAGE

Handling: Combustible Liquid - empty containers can be hazardous and contain explosive vapors. Plastic or stainless steel faucets are recommended. Do not reuse containers. Ground fixed equipment. Bond and ground transfer equipment and containers.

Storage: Store in a cool, dry, ventilated area, away from incompatible substances. Keep containers closed when not in use.

PLATE CLEANER & PRESERVER

DATE: 1/1/2014

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines: COMPONENT	CAS No.	OSHA PEL/TWA	ACGIH TLV/TWA	ACGIH TLV/STEL	OTHER RATING
Aliphatic Hydrocarbon	64742-48-9	100ppm(1)	100ppm		
Corn Syrup	68131-37-3	N/E	N/E		
Polyethylene Glycol	25322-68-3	N/E	N/E	I	0mg/m3 (WEEL)

(1) Based on 1989 VPEL for Stoddard Solvent; current PEL is 500ppm.

Exposure Controls: Avoid open electrical sources near product vapor areas.

Personal Protection Equipment:

Eyes: Chemical splash goggles recommended.

Skin and body: Impervious or chemical resistant gloves (consult safety equipment supplier).

Respiratory: Ventilation in work area should be sufficient to maintain atmosphere with vapor level below lowest listed TLV.

If TLV's are exceeded, use a respirator with appropriate NIOSH approved cartridges or supplied air equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky white liquid.

Odor: Mild odor

pH: 3.7

Melting Point: N/A

Boiling Point: >212° F (>100° C)

Flash Point: (Tag Closed Cup Method) 148° F

Flammable Limits:

LEL: N/A UEL: N/A

Vapor Pressure: (mmHg) Less than 1.0mmHG at 68 degrees F

Vapor Density: (Air = 1) N/A Specific Gravity: (Water = 1) 0.99 Solubility in water: Emulsifies

Maximum VOC Content: (EPA Method 24) 0.83 Lb/Gal (100 Gm/L)

Maximum VOC %: 12% Odor Threshold: N/A Evaporation Rate: N/A Relative Density: N/A

Partition Coefficient: N-Octano/Water: N/A

Auto-ignition Temperature: N/A Decomposition Temperature: N/A

Viscosity: N/A

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Incompatible Materials: Avoid strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and other compounds during combustion.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid exposure to high heat sources, electrical and welding arcs, open flame and strong oxidizing

agents.

Warning: Spontaneous combustion may occur when solvent soaked combustible materials (paper, cotton etc.) are allowed to stand in confined areas.

PLATE CLEANER & PRESERVER

DATE: 1/1/2014.

11. TOXICOLOGICAL INFORMATION

(ATE) FOR MIXTURE:

Specific tests have not been conducted on this product. Our evaluations based on information from the ingredients and technical literature. Data for this material has been used to estimate the symptoms and effects of exposure.

Oral LD50:

LD50 Oral - No data available

Dermal LD50:

LD50 Dermal - > 16,949 mg/kg

Inhalation LC50:

LC50 Inhalation - No data available

Other information on Acute Toxlelty:

No data available

Routes of exposure: Inhalation, Ingestion, Skin

Acute: Overexposure may lead to skin irritation, eye irritation, and central nervous system depression, leading to headaches, nausea and unconsciousness.

Chronic: Overexposure in high concentrations may produce central nervous system depression, dematitis and eye irritation.

Signs and Symptoms of Exposure: Overexposure may lead to dizziness, headaches, dermatitis and eye irritation.

Medical Conditions Aggravated by Exposure: Preexisting eye, skin, or respiratory disorders may be aggravated by exposure.

Carcinogenicity (NTP, IARC, OSHA): Components of this product have not shown any evidence of carcinogenicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: No data available Bloaccumulative potential: No data available

Mobility in the soil: No data available
Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods:

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

14. TRANSPORTATION INFORMATION	ON			
U.S. D.O.T. DESIGNATION Cleaning Liquid. Not Regulated	ID NUMBER	HAZARD <u>CLASS</u>	PACKING GROUP	
U.S. D.O.T. DESIGNATION - BULK Combustible Liquid, N.O.S. (contains Petroleum Naphtha)	NA 1993	СОМВ	III	

PLATE CLEANER & PRESERVER

DATE: 1/1/2014

15. REGULATORY INFORMATION

Regulatory Information: This information may be useful in complying with various federal and state regulations: Components present in this product at a level which could require reporting under EPA Regulation 40CFR302 (CERCLA) Section 102 and EPA Regulation 40CFR372 (SARA) 313: None.

Product may contain components which are further regulated by state and/or local agencies - Consult Appropriate Agencies.

Notification status:

U.S.A.: Toxic Substances Control Act (TSCA) Y
Canada: Domestic Substances List (DSL): Y

16. OTHER INFORMATION

For More Information, Consult Tower Products, Inc.
This Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied Is Made.

Date of Preparation: January 1, 2015

DATE: 1/1/2015

1. CHEMICAL NAME AND COMPANY IDENTIFICATION

Formulated/Manufactured By:

Tower Products, Inc.

2703 Freemansburg Avenue

Easton, PA 18045

Information Telephone Number:

1-800-527-8626 or 610-253-6206

For Chemical Spill Emergency Call:

CHEMTREC: 1-800-424-9300

Product Name:

INFINITY WASH HMK-1 WM

(FOGRA Approved Wash for Sheetfed Presses)

CAS Number:

Mixture - Not Established

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable Liquids (Category 4)

Aspiration Hazard (Category 1)

Specific Target Organ Toxicity - Single Exposure (Category 3)

Skin Irritation (Category 2)

Eye Irritation (Category 2B)

GHS label elements, including hazard and precautionary statements





Pictogram(s)
Signal Word

DANGER!

Hazard statement(s)

H227: COMBUSTIBLE LIQUID.

H304: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

H336: MAY CAUSE DROWSINESS OR DIZZINESS.

1315: CAUSES SKIN IRRITATION.

1320: CAUSES EYE IRRITATION.

?recautionary statement(s)

²revention:

²210: KEEP AWAY FROM HEAT/HOT SURFACES/SPARKS/OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING.

'261: AVOID BREATHING FUME/MIST/DUST/GAS/VAPORS/SPRAY.

'280: WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.

'264: WASH SKIN THOROUGHLY AFTER HANDLING.

lesponse:

'370+P378: IN CASE OF FIRE: USE DRY CHEMICAL OR CARBON DIOXIDE TO EXTINGUISH.

'301+P310+P331: IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR. DO NOT INDUCE /OMITING.

'304+P340: IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

'302+P352: IF ON SKIN: WASH WITH PLENTY OF WATER.

'305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT ENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

DATE: 1/1/2015

Storage:

P403+P233+P405: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. STORE LOCKED UP.

Disposal:

P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL REGULATIONS.

HMIS Classification

Aliphatic Hydrocarbon

Health Hazard: 2

Flammability: 2

Physical Hazard: 0

Personal Protection: B

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)

CAS Number

*Concentration (weight)

80-100%

64742-88-7

In accordance with paragraph (i) of §1910.1200, exact chemical percentages (concentration) of composition have been withheld as a trade secret.

4. FIRST AID MEASURES

Exposure Routes: Inhalation, Ingestion, Skin

Eye Contact: Flush with large volume of water for at least 15 minutes. Get immediate medical attention.

Inhalation: Remove to fresh air. Get immediate medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting.

Skin Contact: Flush area with large amounts of water for at least 15 minutes. Get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical or carbon dioxide.

Specific Hazards: Combustible Liquid. Upon combustion, the product may form earbon monoxide and other organic compounds. Product containers may rupture from vapor pressure when exposed to heat from lire.

Special protective equipment for fire-fighters: Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions and protective equipment:

Respiratory Protection: Use supplied air equipment or respirators with proper NIOSH approved cartridges.

Protective Gloves: Impervious or chemical resistant gloves (consult safety equipment supplier).

Eye Protection: Chemical splash goggles recommended against potential eye contact.

Other Protective Clothing and Equipment: Safety shoes and aprons recommended.

Methods for Clean-Up:

Minor Spills: Absorb material with ground clay, vermiculite, sand, or similar absorbent material and place into containers for

disposal according to local and/or state regulations.

Major Spills: Dike and contain spill. Eliminate potential sources of ignition, and shut off source of spill if possible. Remove liquid by chemical vacuum, absorbent material, or other safe and approved methods, and place into containers for disposal according to local and/or state regulations. Flush area with water to remove residue, and remove flushed solutions as above.

7. HANDLING AND STORAGE

Handling: Combustible Liquid - empty containers can be hazardous and contain explosive vapors. Do not reuse containers. Ground fixed equipment. Bond and ground transfer equipment and containers.

Storage: Store in a cool, dry, ventilated area, away from incompatible substances. Keep containers closed when not in use.

DATE: 1/1/2015

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines:

COMPONENT

CAS No.

OSHA
ACGIH
ACGIH
OTHER
TLV/TWA
TLV/STEL
RATING

Aliphatic Hydrocarbon 64742-88-7 100ppm(1) 100ppm

(1) Based on 1989 VPEL levels for Stoddard Solvent; current PEL is 500ppm.

Exposure Controls: Avoid open electrical sources near product vapor areas.

Personal Protection Equipment:

Eyes: Chemical splash goggles recommended.

Skin and body: Impervious or chemical resistant gloves (consult safety equipment supplier).

Respiratory: Ventilation in work area should be sufficient to maintain atmosphere with vapor level below lowest listed TLV.

If TLV's are exceeded, use a respirator with appropriate NIOSH approved cartridges or supplied air equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cloudy to water white liquid.

Odor: Petroleum odor.

pH: N/A

Melting point: N/A Boiling Point: 355° F

Flash Point: (Tag Closed Cup Method) 147° F

Flammable Limits: Calculated

LEL: 1.0% UEL: 7.0%

Vapor Pressure: (mmHg) <1.0 @ 68° F (20° C)

Vapor Density: (Air = 1) 5.4 Specific Gravity: (Water = 1) 0.79 Solubility in water: Miscible

Maximum VOC Content: 6.57 Lb/Gal (788 Gm/L) Maximum VOC %: (EPA Method 24) 99%

Odor Threshold: N/A Evaporation Rate: N/A Relative Density: N/A

Partition Coefficient: N-Octano/Water: N/A

Auto-ignition Temperature: N/A Decomposition Temperature: N/A

Viscosity: N/A

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Incompatible Materials: Avoid strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and other compounds during combustion.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid exposure to high heat sources, electrical and welding arcs, open flame and strong oxidizing

igents.

Warning: Spontaneous combustion may occur when solvent soaked combustible materials (paper, cotton etc.) are allowed to stand in confined areas.

DATE: 1/1/2015

11. TOXICOLOGICAL INFORMATION

(ATE) FOR MIXTURE:

Specific tests have not been conducted on this product. Our evaluations based on information from the ingredients and technical literature. Data for this material has been used to estimate the symptoms and effects of exposure.

Oral LD50:

LD50 Oral - ≥ 2,512 mg/kg

Dermal LD50:

LD50 Dermal - ≥ 2,512 mg/kg

Inhalation LC50:

LC50 Inhalation - No data available

Other information on Acute Toxicity:

No data available

Routes of exposure: Inhalation, Ingestion, Skin

Acute: Overexposure may lead to central nervous system depression, leading to headaches, nausea and unconsciousness.

Chronic: Overexposure in high concentrations may produce central nervous system depression.

Signs and Symptoms of Exposure: Overexposure may lead to dizziness, headaches, dermatitis and eye irritation.

Medical Conditions Aggravated by Exposure: Preexisting eye, skin, liver, kidney, or respiratory disorders may be aggravated by exposure.

Carcinogenicity (NTP, IARC, OSHA): Components of this product have not shown any evidence of carcinogenicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in the soil: No data available Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods:

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

14. TRANSPORTATION INFORMATION

<u>U.S. D.O.T. DESIGNATION</u> Cleaning Liquid. Not Regulated. ID NUMBER HAZARD CLASS PACKING GROUP

INFINITY WASH HMK-1 WM

DATE: 1/1/2015

15. REGULATORY INFORMATION

Regulatory Information: This information may be useful in complying with various federal and state regulations: Components present in this product at a level which could require reporting under EPA Regulation 40CFR302 (CERCLA) Section 102 and EPA Regulation 40CFR372 (SARA) 313: None.

Product may contain components which are further regulated by state and/or local agencies - Consult Appropriate Agencies.

Notification status:

U.S.A.: Toxic Substances Control Act (TSCA) Y
Canada: Domestic Substances List (DSL): Y

16. OTHER INFORMATION

For More Information, Consult Tower Products, Inc.
This Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied Is Made.

Date of Preparation: January 1, 2015

CTP SCRATCH REMOVER

DATE: 1/1/2015

1. CHEMICAL NAME AND COMPANY IDENTIFICATION

Formulated/Manufactured By:

Tower Products, Inc.

2703 Freemansburg Avenue

Easton, PA 18045

Information Telephone Number:

1-800-527-8626 or 610-253-6206

For Chemical Spill Emergency Call:

CHEMTREC: 1-800-424-9300

Product Name:

CTP Scratch Remover (Scratch Remover for CTP Plates)

CAS Number:

Mixture - Not Established

2. HAZARD(S) IDENTIFICATION

GHS Classification

Flammable Liquids (Category 4)

Skin Irritation (Category 2)

Eye Irritation (Category 2A)

Specific Target Organ Toxicity - Single Exposure (Category 3)

GHS label elements, including hazard and precautionary statements



Pictogram(s)

Signal Word

WARNING!

Hazard statement(s)

H227: COMBUSTIBLE LIQUID.

H315: CAUSES SKIN IRRITATION.

H319: CAUSES SERIOUS EYE IRRITATION.

H336: MAY CAUSE DROWSINESS OR DIZZINESS.

Precautionary statement(s)

Prevention:

P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES.

NO SMOKING.

P280: WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.

P264: WASH SKIN THOROUGHLY AFTER HANDLING.

P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPOR/SPRAY.

Response:

P370+P378: IN CASE OF FIRE: USE WATER TO EXTINGUISH.

P302+P352: IF ON SKIN: WASH WITH PLENTY OF WATER.

P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT

LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P304+P340: IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

CTP SCRATCH REMOVER

DATE: 1/1/2015

Storage:

P403+P233+P405: STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. STORE LOCKED UP.

Disposal:

P501: DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL REGULATIONS.

HMIS Classification

Health Hazard: 2 Flammability: 2 Physical Hazard: 0 Personal Protection: B

3. COMPOSITION / INFORMATION	ON	INGREDIENTS
0 (1)	-	01011

Component(s)	CAS Number	*Concentration (weight)
Aliphatic Hydrocarbon	64742-47-8	10-25%
Aromatic Hydrocarbon	64742-95-6	1-10%
Glycerin	56-81-5	1-10%
Phosphoric Acid	7664-38-2	1-10%
Nonionic Surfactant	9036-19-5	1-10%
Sodium Hexametaphosphate	10124-56-8	1-10%
Magnesium Nitrate Hexahydrate	13446-18-9	1-10%
Nonylphenol Ethoxylates	9016-45-9	1-10%
Components of the Aromatic Hydrocarbon:	:	
1,2,4-Trimethylbenzene	95-63-6	≤ 1.65%
Xylene	1330-20-7	< 1.0% - TRACE
Cumene	98-82-8	< 1.0% - TRACE

^{*} In accordance with paragraph (i) of §1910.1200, exact chemical percentages (concentration) of composition have been withheld as a trade secret.

4. FIRST AID MEASURES

Exposure Routes: Inhalation, Ingestion, Skin

Eye Contact: Flush with large volume of water for at least 15 minutes. Get immediate medical attention.

Inhalation: Remove to fresh air. Get immediate medical attention. Ingestion: Get immediate medical attention. Do not induce vomiting.

Skin Contact: Flush area with large amounts of water for at least 15 minutes. Get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water.

Specific Hazards: None.

Special protective equipment for fire-fighters: Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions and protective equipment:

Respiratory Protection: Use supplied air equipment or respirators with proper NIOSH approved cartridges.

Protective Gloves: Impervious or chemical resistant gloves (consult safety equipment supplier).

Eye Protection: Chemical splash goggles recommended against potential eye contact.

Other Protective Clothing and Equipment: Safety shoes and aprons recommended.

Methods for Clean-Up:

Minor Spills: Absorb material with ground clay, vermiculite, sand, or similar absorbent material and place into containers for disposal according to local and/or state regulations.

Major Spills: Dike and contain spill. Eliminate potential sources of ignition, and shut off source of spill if possible. Remove liquid by chemical vacuum, absorbent material, or other safe and approved methods, and place into containers for disposal according to local and/or state regulations. Flush area with water to remove residue, and remove flushed solutions as above.

DATE: 1/1/2015

7. HANDLING AND STORAGE

Handling: Do not reuse containers. Empty containers can be hazardous. Ground fixed equipment. Bond and ground transfer equipment and containers. Plastic or stainless steel pumps or faucets recommended.

Storage: Store in a cool, dry, ventilated area, away from incompatible substances. Keep containers closed when not in

use.

8. EXPOSURE CONTROLS AND	PERSONAL	PROTECTION			
Exposure Guidelines:		OSHA	ACGIH	ACGIH	OTHER
COMPONENT	CAS No.	PEL/TWA	TLV/TWA	TLV/STEL	RATING
Aliphatic Hydrocarbon	64742-47-8	100ppm(1)	100ppm		
Aromatic Hydrocarbon	64742-95-6	100ppm(2)	100ppm		
Glycerin	56-81 <i>-</i> 5	15mg/m3	10mg/m3		
Phosphoric Acid	7664-38-2	lmg/m3	lmg/m3	3mg/m3	
Nonionic Surfactant	9036-19-5	N/E	N/E		
Sodium Hexametaphosphate	10124-56-8	N/E	N/E		
Magnesium Nitrate Hexaliydrate	13446-18-9	N/E	N/E		
Nonylphenol Ethoxylates	9016-45-9	N/E	N/E		

- (1) Based on 1989 VPEL levels for Stoddard Solvent; current PEL is 500ppm.
- (2) Based on PEL for Xylene.

This blend contains approximately 1.65% 1,2,4 Trimethylbenzene. Xylene, Cumene and Ethyl Benzene are present at less than

Exposure Controls: Avoid open electrical sources near product vapor areas.

Personal Protection Equipment:

Eyes: Chemical splash goggles recommended.

Skin and body: Impervious or chemical resistant gloves (consult safety equipment supplier).

Respiratory: Ventilation in work area should be sufficient to maintain atmosphere with vapor level below lowest listed TLV.

If TLV's are exceeded, use a respirator with appropriate NIOSH approved cartridges or supplied air equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White emulsion Odor: Mild solvent odor

pH: 2.2 - 2.4 Melting point: N/A Boiling Point: 212° F

Flash Point: (Tag Closed Cup Method) > 150° F

Flammable Limits:

LEL: N/A UEL: N/A

Vapor Pressure: (mmHg, calculated) < 1 Vapor Density: (air = 1, calculated) 17.4 Specific Gravity: (Water = 1) 1.12

Solubility In water: Emulsion

Maximum VOC Content: 1.3 Lb/G (156 Gm/L)

Maximum VOC %: 14% Odor Threshold: N/A Evaporation Rate: N/A Relative Density: N/A

Partition Coefficient: N-Octano/Water: N/A

Auto-ignition Temperature: N/A
Decomposition Temperature: N/A

Viscosity: N/A

CTP SCRATCH REMOVER

DATE: 1/1/2015.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Incompatible Materials: Avoid contact with acids, flammable liquids, organic halogens, aluminum and soft alloys.

Hazardous Decomposition Products: None. Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid exposure to high heat sources, electrical and welding arcs, open flame, contact with acids,

flammable liquids, organic halogens, aluminum and soft alloys.

11. TOXICOLOGICAL INFORMATION

(ATE) FOR MIXTURE:

Specific tests have not been conducted on this product. Our evaluations based on information from the ingredients and technical literature. Data for this material has been used to estimate the symptoms and effects of exposure.

Oral LD50:

LD50 Oral - \geq 6,211 mg/kg

Dermal LD50:

LD50 Dermal - ≥ 12,820 mg/kg

Inhalation LC50:

LC50 Inhalation - No data available.

Other information on Acute Toxicity:

No data available

Routes of exposure: Inhalation, Ingestion, Skin

Acute: Overexposure may lead to dermatitis and eye irritation.

Chronic: Overexposure in high concentrations may dermatitis and eye irritation.

Signs and Symptoms of Exposure: Overexposure may lead to dermatitis and eye irritation.

Medical Conditions Aggravated by Exposure: Preexisting eye, skin, liver, kidney, blood, nerve, or respiratory disorders

may be aggravated by exposure.

Carcinogenicity (NTP, IARC, OSHA): Components of this product have not shown any evidence of carcinogenicity. TRACE amounts (<1%) of Ethyl Benzene and Cumene, as components of the Aromatic Hydrocarbon, are listed by IARC as 2B Possible Human Carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in the soil: No data available Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods:

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

CTP SCRATCH REMOVER

DATE: 1/1/2015

14. TRANSPORTATION INFORMATION

ID NUMBER HAZARD CLASS

PACKING **GROUP**

U.S. D.O.T. DESIGNATION

Cleaning Liquid. Not Regulated

U.N. DESIGNATION Same as D.O.T.

15. REGULATORY INFORMATION

Regulatory Information: This information may be useful in complying with various federal and state regulations: Components present in this product at a level which could require reporting under EPA Regulation 40CFR302 (CERCLA) Section 102 and EPA Regulation 40CFR372 (SARA) 313: This product contains approximately 1.65% 1,2,4-Trimethylbenzene, and 2.9% Phosphoric Acid 85%. Cumene, Ethyl Benzene and Xylenes are present at less than 1.0%.

Product may contain components which are further regulated by state and/or local agencies - Consult Appropriate Agencies.

Notification status:

U.S.: Toxic Substances Control Act (TSCA)

Y

Canada: Domestic Substances List (DSL):

Y

16. OTHER INFORMATION

For More Information, Consult Tower Products, Inc.

This Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied Is Made.

Date of Preparation: January 1, 2015

		×.

Printing Inks

HOJA MATERIAL de SEGURIDAD DATOS

SUPERIOR PRINTING INK COMPANY, INC.

100 NORTH STREET TETERBORO, NJ 07608 TELEFONO de INFORMACION: (201) 478-5600

TELEFONO DE EMERGENCIA: (201) 478-5600 FECHA de PREPARACION: Noviembre 14, 2008

HMIS: HI FI RO

SECCION I

CLASE DE PRODUCTO: Tintas Offset Oxidantes COMERCIE NOMBRE: Biolocity MT Process Colors

YC-4197; DRE-1900; MBE-9117; AE-2118 NUMERO de ARTICULO:

SECCION II — COMPONENTES PELIGROSOS

Este producto no es considerado peligroso bajo el Estándar de Comunicación de Peligro de OSHA, 29CFR 1910,1200.

SECCION III — DATOS FISICOS

0 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			NUMERUS	de TINTAS	
GAMA HIRVIENTE (°F): 520 - 578		YC-4197	IDRE-1900	MBE-9117	AE-2118
LA DENSIDAD DE VAFOR VS. AIRE: Más pesado LA DENSIDAD LIQUIDA VS. AGUA: Más pesado	GRAVEDAD ESPECIFICA	0.96	1 03	103	1.08
LA DENSIDAD LIQUIDA VS. AGUA. Mas possessos	GRAVEDAD ESTECIFICA	0.70			
LA TASA DE LA EVAPORACION VS. ACETATO DE BUTILO: Más despacio	FESO (N/pil)	10.8	8.59	839	901
SOLUBILIDAD EN EL AGUA: Ninguno APARIENCIA: Coloró Pasta	VOLATILES (Mgsl)	0,24	0.25	0.25	0.27
EITIPO DE OLOR: Grasiento	PORCENTALE DE VOLATILES POR PESO	<3.0	40	⊲0	<10

SECCION IV — DESPIDA Y los DATOS de EXPLOSION

LIMITE MAS BAJO de EXPLOSION: PUNTO ALGIDO (°F) >200 CLASIFICACION DE INFLAMABILIDAD DOT: No Regulado (Metodo usado): SETA C.C. Ningunos Datos NFPA: CLASE III B MEDIOS EXTINCION: Rociador, espuma, CO2 o sustancia química seca.

PELIGROS INSUALES DE INCENDIO Y EXPLOSIVIDAD: Puede despedir humo denso al quemar.

PROCEDIMIENTOS ESPECIALES EN CASO DE INCENDIO: Los bomberos deben ser equipados con respirador y ropa adecuada. El rocío del agua puede ser utilizado para refrescar contenedores cerrados para prevenir aumento de presión y auto-ignición cuando expuesto al calor extremo. Cuándo agua es utilizada, bocas de rociador son preferible.

SECCION V — DATOS de PELIGRO PARA LA SALUD

EFECTOS DE EXPOSICION EXCESIVA: A causa de la propiedad en ciertos ingredients para descomponer las grasas, el contacto de la piel puede tener como resultado la sequedad y/o la irritación y la dermatitis puede desarrollarse con exposición prolongada. Irritación del los ojos es también posible.

CONDICIONES MEDICAS QUE PODRIAN AGRAVARSE POR EXPOSICION: Es contacto puede agravar una dermatitis ya

RUTA PRIMARIA DE ENTRADA: A traves de la piel.

PROCEDIMIENTOS DE EMERGENCIA Y PRIMEROS AUXILIOS:

Inalacion: Retirese de la exposición y restaura la respirarcion. Llamese a un médico.

Ojos: Limple con agua durante 15 minutos y llamese a un médico.

Piel: Lave con jabón y agua. Quitese la ropa contaminada. Ingestión: NO INDUZCA VOMITAR.

SECTION VI — DATOS de REACTIVIDAD

ESTABILIDAD DEL PRODUCTO: Estable

CONDICIONES PARA EVITAR: El calor, las chispas y llamas abiertas.

PRODUCTOS PELIGROSOS de DESCOMPOSICION: CO, CO2 y NO2 en el ardor.

POLIMERIZACION PELIGROSA: No ocurrirá.

SECCION VII — ROCIE O SALGA SE PROCEDIMIENTOS

PROCEDIMIENTO A SEGUIR EN CASO DE DERRAMES: Limpie. Disponga de panos o toallas en contenedores aprobados para desechos grasientos.

METODO de ELIMINACION DE DESECHOS: En acuerdo con regulaciones Federal, Estatales y/o Locales.

SECCION VIII — INFORMACION ESPECIAL de PROTECCION

VENTILACION: Bajo condiciones normales, ventilación general o ventilación local de escape o como especificado por requisitos Locales y/o Estatales.

GUANTES PROTECTORES: Necesario para el contacto prolongado o repetido.

PROTECCION RESPIRATORIA: Ninguno requirido normalmente.

PROTECCION de LOS OJOS: Ninguno requirido en el uso normal.

OTRO EQUIPO DE PROTECCION: Ninguno

SECCION IX — PRECAUCIONES ESPECIALES

MANEJO Y ALMACENAMIENTO: Almacene en contenedores sellados lejos de calor, las chispas, llamas, y materias oxidants. Tenga un extinguidor de fuego fácilmente disponible y el personal entrenado en su uso apropiado.

OTRAS PRECAUCIONES: SOLO PARA USO INDUSTRIAL. NO TOME INTERNAMENTE, NO VUELVA A EMPLEAR CONTENEDOR PARA OTROS FINES.

SECCION X — OTROS CONTROLES REGULATIVOS

LA SECCION 313 SUMINISTRADOR NOTIFICACION: Este producto contiene el siguientes sustancias químicas tóxicas que son susceptibles a los requisitos de la cobertura de Sección 313 la Emergencia que Planea y el Derecho de la Comunidad a Derecho de Saber de 1986 y 40 CFR 372:

Sustancia de Reportable

Porcentaje por Peso

Compuesto de manganeso

1.2

Mientras que Superior Printing Ink Co., Inc., cree que el conjunto de datos este documento es exacto a la fecha del mismo. Superior Printing Ink Co., Inc. no garantíza con respecto al mismo, y expresamente renuncia a toda obligación para la dependencia sobre reclamacion. Tales datos son ofrecidos únicamente para su consideración, investigación y comprobación.

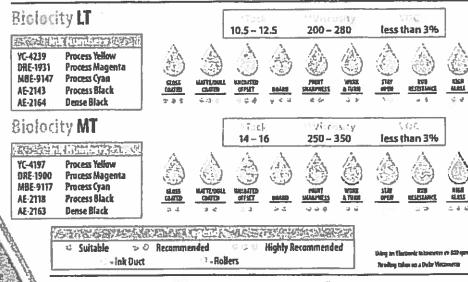
Biolocity is an innovation in environmentally responsible sheetfed ink technology that delivers superb lithographic performance, press productivity, and print quality with extremely low levels of volatile organic compounds. **Biolocity** sets a new industry benchmark for green formulation technology with the incorporation of high percentages of bio-derived, renewable raw materials.

Performance benefits of Biolocity:

- Outstanding lithographic performance on a wide variety of porous substrates
- Extremely fast setting and drying performance provides substantial reduction in time to bindery, a critical factor in today's short run and time-sensitive market
- Highly press-stable formulation reduces make-ready time and color drift during runs, resulting in less printed waste
- Stays open on the rollers overnight and for one week in the lnk fountain
- Delivers a rub resistant, durable printed product on a broad range of papers and boards
- Suitable for aqueous coating, UV coating (off-line), and lamination
- Conforms to ISO 2846-1 color standards, allowing the printer to run to ISO 12647-2 and G7 specifications in the pressroom

Environmental benefits of Biolocity:

- Essentially 100% solids formulation with extremely low VOC content (less than 3% by EPA Method 24)
- Formulated with 23% or more vegetable oil
- Does not contain any petroleum-derived ink solvents
- Product contains a minimum of 60% bio-derived, renewable, and sustainable raw materials
- Environmentally responsible technology for printers looking to operate a greener pressroom









100 North Street ▲ Teterboro, New Jersey 07608
Telephone: 877.525.1918 ▲ Facsimile: 201.478.5650
www.superiorink.com ▲ email: info@superiorink.com

Modern Technology/Old Fashioned Service Since 1918

MATERIAL SAFETY DATA SHEET

SUPERIOR PRINTING INK COMPANY, INC. 70 BETHUNE STREET NEW YORK, NY 10014

INFORMATION PHONE: (212) 741-3600 EMERGENCY PHONE: (212) 741-3600 DATE PREPARED: July 25, 2002

HMIS: HI FI RO

SECTION I

PRODUCT CLASS: Oxidizing Offset Inks

TRADE NAME: Offset Precision Pantone® Colors

PRODUCT NUMBER: All Codes (See Page 2)

SECTION II — HAZARDOUS COMPONENTS

This product is not considered hazardous under the CSHA Hazard Communication Standard, 29CFR 1910.1200.

SECTION III — PHYSICAL DATA

BOILING RANGE (*F): 520 - 578
VAPOR DENSITY VS. AIR: Heavier
LIQUID DENSITY VS. WATER: Heavier
EVAPORATION RATE VS. BUTYL ACETATE: Slower
SOLUBILITY IN WATER: None
APPEARANCE: Colored Paste
TYPE OF ODOR: Oily
% VOLATILES, Wt.: 9-18 — EPA Method 24

SECTION IV — FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION

OSHA: CLASSIII B

DOT: Not Regulated

FLASH PT. (°F) >200

LEL: No Data

(Method used): SETA C.C

EXTINGUISHING MEDIA: Use fog, foam, CO, or dry chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dense smoke may be generated when burning.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should be equipped with self-contained breathing apparatus and turnout gear. Water spray may be used to cool closed containers to prevent pressure build-up and possible auto-ignition when exposed to extreme heat. When water is used, fog nozzles are preferable.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Because of the defatting property in certain ingredients, skin contact may result in dryness and/or irritation and dermatitis may develop with prolonged exposure. Eye irritation is also possible.

MEDICAL CONDITION PRONE TO AGGRAVATION BY EXPOSURE: It is expected that skin contact may aggravate an existing demnatitis.

PRIMARY ROUTE(S) OF ENTRY: DERMAL

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Remove from exposure, restore breathing. Call physician.

Eyes: Flush with water for 15 minutes. Call physician.

Skin: Wash with soap and water, remove contaminated clothing.

Ingestion: DO NOT INDUCE VOMITING

Page 1 of 2

AT: BATZAIDA

THUE U

. FT LAUDERDALE

@1004

SUPERIOR Printing Ink Company, Inc. May 28, 1996

SECTION VI - REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: Heat, sparks, and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and N, O on burning.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII — SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED: Wipe up - Dispose of wipers in containers approved for oily wastes.

WASTE DISPOSAL METHOD: In accordance with Federal, State, and Local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Under normal conditions, general ventilation or local exhaust ventilation or as specified by Local or State requirements.

PROTECTIVE GLOVES: Required for prolonged or repealed contact.

RESPIRATORY PROTECTION: None required normally.

EYE PROTECTION: None required in normal usage.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX — SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store in scaled containers away from heat, sparks, open flames, and oxidizing materials. Fire extinguisher readily available and personnel trained in its proper use.

OTHER PRECAUTIONS: FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY. DO NOT REUSE CONTAINER FOR OTHER PURPOSES.

While Superior Printing Ink Company, Inc. believes the data set forth herein are accurate as of the date hereof, Superior Printing Ink Company, Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered soley for your consideration, investigation, and verification.

I MUL. U.J

→ FT LAUDERDALE

@cos

MATERIAL SAFETY DATA SHEET

SUPERIOR PRINTING INK COMPANY, INC. 70 BETHUNE STREET NEW YORK, NY 10014

INFORMATION PHONE: (212) 741-3600 EMERGENCY PHONE: (212) 741-3600

DATE PREPARED: May 28, 1996 HMIS: H1 F1 R0

SECTIONI

FRODUCT CLASS: Oxidizing Offset Inks

TRADENAME: Offset Rotary (No Heat Web Offset)

PRODUCT NUMBER: All Codes

SECTION II — HAZARDOUS COMPONENTS

This product is not considered hazardous under the OSHA Hazard Communication Standard, 29CFR 1910.1200.

SECTION III — PHYSICAL DATA

BOILING RANGE (°F): 520 - 578
VAPOR DENSITY VS. AIR: Heavier
LIQUID DENSITY VS. WATER: Heavier
EVAPORATION BATE VS. BUTTY ACCES

EVAPORATION RATE VS. BUTYL ACETATE: Slower

SOLUBILITY IN WATER: None APPEARANCE: Colored Paste TYPE OF ODOR: Oily

% VOLATILES, Wt.: 35 Max. - EPA Method 24

SECTION IV.— FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION

OSHA: CLASS III B DOT: Not Regulated

FLASH PT. (°F) >200 (Method used): SETA C.C.

LEL: No Data

EXTINGUISHING MEDIA: Use fog, foam, CO, or dry chemical

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dense smoke may be generated when burning.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should be equipped with self-contained breathing apparatus and turnout gear. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition when exposed to extreme heat. When water is used, fog nozzles are preferable.

SECTION V — HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Because of the defatting property in certain ingredients, skin contact may result in dryness and/or irritation and dermatitis may develop with prolonged exposure. Eye irritation is also possible.

MEDICAL CONDITION PRONE TO AGGRAVATION BY EXPOSURE: It is expected that skin contact may aggravate an existing dermatitis

PRIMARY ROUTE(S) OF ENTRY: DEIMAL

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Remove from exposure, restore breathing. Coll physician.

Eyes: Flush with water for 15 minutes. Call physician.

Skin: Wash with soap and water, remove contaminated clothing.

Ingestion: DO NOT INDUCE VOMITING

SUPERIOR Printing Ink Company, Inc. July 25, 2002

SECTION VI - REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: Heat, sparks and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and N,O on burning.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED: Wipe up - Dispose of wipers in containers approved for oily wastes.

WASTE DISPOSAL METHOD: In accordance with Federal, State, and Local regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

VENTILATION: Under normal conditions, general ventilation or local exhaust ventilation or as specified by Local or State requirements.

PROTECTIVE GLOVES: Required for prolonged or repeated contact.

RESPIRATORY PROTECTION: None required normally.

EYE PROTECTION: None required in normal usage.

OTHER PROTECTIVE EQUIPMENT: None

SECTION IX — SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store in sealed containers away from heat, sparks, open flames, and oxidizing materials. Fire extinguisher readily available and personnel trained in its proper use.

OTHER PRECAUTIONS: FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY. DO NOT REUSE CONTAINER FOR OTHER PURPOSES.

SECTION 313 SUPPLIER NOTIFICATION

"This product contains the following toxic chemicals that are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372:

COLOR	PRODUCT No.	METHOD 24 VOC, WT.%	SARA 313 REPORTING
YELLOW	YB-9310	18	NONE
WARM RED	MRC-1870	14	BARIUM COMPOUND, 31%
RUBINE RED	DRD-3450	16	NONE
RHODAMINE RED	DRD-3460	18	NONE
PURPLE	PA-9030	18	NONE
VIOLET	PA-9040	17	NONE
REFLEX BLUE	DBD-5550	12	NONE
PROCESS BLUE	MBE-4720	14	NONE
GREEN	MGB-8230	17	NONE
TRANSPARENT WHITE	W-4030	16	NONE
NEUTRAL BLACK	AD-5050	9	NONE

While Superior Printing Ink Company, Inc. believes the data set forth herein are accurate as of the date hereof, Superior Printing Ink Company, Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.

Material Safaty Data Sheat m 1 1170 MSOS: 11823 - OFFSET SOY NOTARY / BUSINESS FORMS Plant #: 401 Insertoo parasasasasasasasasasasasasasasasasas Status: Fending Revided: 15/02/ 1 Formula: NOT GIVEN Part Number: NOT GIVEN Specification: NOT GIVEN Kayword: NOT GIVEN Synonyms: NOT GIVEN Stock Items: NOT GIVEN Manufacturer SUPERIOR PRINTING INK CO., INC. 70 BETHUNE STREET Phone: 212-741-3600 MEW YORK, NY 10014 Emergency: 212-741-3600 Supplier SUPERIOR PRINTING INK CO., INC. 70 BETHUNE STREET Phone: 212-741-3500 NEW YORK, NY 10014 Emergency: 312-741-3600 Physical/Chemical Characteristics Boiling Point 87 520 F 578 F Melting Point No Freezing Point: MG Pour Point NG Softening Point: NG Specific Gravity: LT 1 LIG.DENSITY, LIGHTER. Vapor Pressure: NG Vapor Density GT 1 HEAVIER THAN AIR. Percent Volatiles: LE 13% BY WT. Evaporation Rate: LT 1 SLOWER, BUAC=1. pH NG Molecular Weight: NG Viscosity NG Solubility in Water ..: NONE. Odor/Appearance/Other Characteristics: OILY ODOR / COLORED PASTE. Fire and Explosion Data Closed Cup Flash Pt. .: EQ 250 F SETA. Open Cup Flash Point .: NG Fire Point NG Auto Ignition NG Lower Explosion Limit : ND NO DATA. Upper Explosion Limit : NG

Shipping Regulations

UN/NA Number: NG

DOT Hazard Class: NOT REGULATED Shipping Label: NOT GIVEN Shipping Nama: NOT GIVEN

.

Material Safety Data Shoet

MSDS: 11820 - OFFSET SOY ROTARY / BUSINES'S FORMS

Prepared

Preparer's Name & Title: NOT GIVEN

Preparation Date: 10/01/90

Component(s):

OXIDIZING OFFSET INKS

OSHA Pel: NG ppm NS ms/m3 ACGIH TLV: NG ppm NG mg/m3 STEL: NG ppm NG mg/m3

Percent of Product: NG

CAS No. : NOT DIVEN

MSDS: 11823

Text Section(s)

PRODUCT IDENTIFICATION

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

TRADE NAME: Oxidizing Offset Inks

PRODUCT CLASS: Offset Soy Rotary / Business Forms

PRODUCT NUMBER: All Codes

HMIS: HEALTH = 1; FLAMMABILITY = 1; REACTIVITY = 0

MANUFACTURER:

SUPERIOR PRINTING INK CO., INC.

70 BETHUNE STREET NEW YORK, NY 1001:

INFORMATION PHONE: (212) 741-3600 EMERGENCY PHONE: (212) 741-3600

HAZARDOUS COMPONENTS

SEE COMPONENT PAGES FOR ADDITIONAL INFORMATION.

This product is not considered hazardous under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

PHYSICAL DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

Material Safety Late Sheet

MSDS: 11823 - OFFSET SOY P.T. / YULTHES FORM

Plant 8: 404 Int. too weeks a material war was a second of age

FIRE AND EXPLOSION DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

FLAMMABILITY CLASSIFICATION:

OSHA: Class III8

EXTINGUISHING MEDIA: Use water fog, foam, CO2, or dry chemical.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dense smoke may be generated when burning.

Charles and the

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Water spray may be used to cool closed containers to prevent pressure build-up and possible auto-ignition when exposed to extreme heat. When water is used, fog nozzles are preferable.

**SDI - .13823

HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

Because of the defatting property in certain ingredients, skin contact may result in dryness and/or irritation and dermatitis may develop with prolonged exposure.

Eye irritation is also possible.

MEDICAL CONDITION PRONE TO AGGRAVATION BY EXPOSURE: It is expected that skin contact may aggravate an existing dermatitis.

PRIMARY ROUTE(S) OF ENTRY: DERMAL

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove from exposure, restore breathing. Call physician.

EYES: Flush with water for 15 minutes. Call physician.

SKIN: Wash with soap and water, ramove contaminated clothing.

INGESTION: DO NOT INDUCE VOMITING.

Material Safety Data Sheet MSDS: 11823

MSDS: 11823 - OFFSET SOY ROTARY / BUSINESS FORMS

REACTIVITY DATA

PRODUCT STABILITY: STABLE

CONDITIONS TO AVOID: Heat, sparks, and open flame.

HAZARDOUS DECOMPOSITION PRODUCTS: CO and CO2 on burning.

MAIARDOUS POLYMERIZATION: Will not occur

SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED: Wipe up - Dispose of wipers in containers approved for pily wastes.

WASTE DISPOSAL METHOD: In accordance with Federal, State, and local regulations.

SPECIAL PROTECTION INFORMATION

VENTILATION: General ventilation or local exhaust ventilation or as specified by Local or State requirements.

PROTECTIVE GLOVES: Required for prolonged or repeated contact.

RESPIRATORY PROTECTION: None required in normal usage.

EYE PROTECTION: None required in normal usage.

OTHER PROTECTIVE EQUIPMENT: None

SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store in sealed containers away from heat, sparks, open flames and exidizing materials. Fire extinguisher readily available and personnel trained in its proper use.

OTHER PRECAUTIONS: FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY. DO NOT REUSE CONTAINER FOR OTHER PURPOSES.

SPECIAL NOTES

While Superior Printing Ink Company, Inc. believes the data set forth herein are accurate as of the date hereof, Superior Printing Ink Company, Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.

End of MSDS

Material Safety Data Sheet MSDS: 11962 MSDS: 11962 - CML OIL BASE PLUS COLORS Status: Pending Ravised: 2/08/96 Formula: NOT GIVEN Part Number: NOT GIVEN Specification: NOT GIVEN Kayword: NOT GIVEN Synonyms: NOT GIVEN Stock Items: NOT GIVEN Manufacturer VAN SON ROYAL DUTCH PRINTING INK FACTORIES Phone: HILVERSUM, HOLLAND Emergency: Supplier VAN SON HOLLAND INK CORP. OF AMERICA 92 UNION ST. Phone: MINEOLA, NY 11501 Emergency: 516 294-8811 Physical/Chemical Characteristics Boiling Point GT 500 F Melting Point: NG Freezing Point: NA Pour Point NG Softening Point: NG Specific Gravity: BT 1.05 1.10 DENS.: 8.7-9.5 #/GAL Vapor Pressure: LT 2.068 MM HG, (0.04 PSI. Vapor Density GT - 1 HEAVIER VS. AIR. Percent Volatiles: BT 10% 15% ASTM D-2369, BY WT. Evaporation Rate: LT 1 BU AC=1, SLOWER. PH NA Molecular Weight: NG Viscosity NG Solubility in Water ..: NOT GIVEN Odor/Appearance/Other Characteristics: COLORED VISCOUS PASTE / OILY ODOR / V.P.: ASTM D1475 / ODOR THRESHOLD: HIGH. Fire and Explosion Data Closed Cup Flash Pt. .: GT 250 F Open Cup Flash Point .: NG Fire Point NG Auto Ignition NG Lower Explosion Limit : NA Upper Explosion Limit : NA

Shipping Regulations

UN/NA Number: NG

DOT Hazard Class: NOT REGULATED Shipping Label: NOT GIVEN Shipping Name: NOT GIVEN Material Safety Data Sheet MSDS: 11962

MSDS: 11962 - CML OIL BASE PLUS COLORS

Prepared

Preparer's Name & Title: G. LINDQUIST, CONSULTANT

Preparation Date: 1/01/94

Component(s):

BARIUM COMPOUND

OSHA Pel: NG ppm NG mg/m3
ACGIH TLV: NG ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: NG CAS No.: NOT GIVEN

PIGMENT RED 53.1

OSHA Pel: NG ppm NG mg/m3
ACGIH TLV: NG ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: NG CAS No.: NOT GIVEN

ORGANIC PIGMENTS

OSHA Pel: NG ppm 3.5 mg/m3
ACGIH TLV: NG ppm 3.5 mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 2% 10% CAS No.: NOT GIVEN

Note: CAS NO.: VARIOUS.

SYNTHETIC RESINS

OSHA Pel: NA ppm NG mg/m3
ACGIH TLV: NA ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 30% S0% CAS No.: NOT GIVEN

Note: CAS NO.: VARIOUS.

VEGETABLE OIL

OSHA Pel: NA ppm NG mg/m3
ACGIH TLV: NA ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 18% 28% CAS No.: NOT GIVEN

Note: CAS NO.: 0001-VARIOUS / INCLUDES: LINSEED OIL & SOYA OIL.

LINSEED OIL

OSHA Pel: NG ppm NG mg/m3
ACGIH TLV: NG ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: NG CAS No.: 8001261

Note: VEGETABLE OIL.

Material Safety Data Sheet MSDS: 11962 MSDS: 11962 - CML OIL BASE PLUS COLORS

SOYA OIL

OSHA Pel: NG ppm NG mg/m3
ACGIH TLV: NG ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: NG CAS No.: 8001227

Note: VEGETABLE OIL.

SEVERE ACID TREATED OR SOLVENT REFINED MIDDLE DISTILLATE

OSHA Pei: NG ppm 5 mg/m3
ACGIH TLV: NA ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: NG CAS No.: 64742138

SEVERE ACID TREATED OR SOLVENT REFINED MIDDLE DISTILLATE

OSHA Pel: NG ppm 5 mg/m3
ACGIH TLV: NA ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 10% 20% CAS No.: 64741919

NAPHTHENIC SEVERE HYDROTREATED MIDDLE DISTILLATE

OSHA Pel: NG ppm 5 mg/m3
ACGIH TLV: NG ppm NA mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 5% 10% CAS No.: 64742536

POLYMERIC WAX BLEND

OSHA Pel: NA ppm NG mg/m3
ACGIH TLV: NA ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 3% 5% CAS No.: NOT GIVEN

Note: CAS NO.: NA.

COBALT DRIER

OSHA Pel: NG ppm 0.1 mg/m3
ACGIH TLV: NA ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 0.0% 1% CAS No.: 61789524

MANGANESE DRIER

OSHA Pel: NG ppm 5 mg/m3
ACGIH TLV: NA ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 0.0% 1% CAS No.: 8030704

Material Safety Data Sheet

MSDS: 11962 - CML OIL BASE PLUS COLORS

Text Section(s)

MSDS: 11962

PRODUCT INFORMATION

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

PRODUCT: CML Oil Base Flus Colors

TRADE NAME: CML Oil Base Plus Colors

PRODUCT CLASS: Offset Ink Oxidizing

MANUFACTURER'S CODE ID: VS700-744 VS746-794

HAZARD RATINGS:

MINIMAL: 0 HEALTH: 1

SLIGHT: 1

MODERATE: 2 FLAMMABILITY: 1

SERIOUS: 3

SEVERE: 4 REACTIVITY: 0

MANUFACTURER:

VAN SON ROYAL DUTCH PRINTING INK FACTORIES HILVERSUM, HOLLAND

DISTRIBUTOR:

VAN SON HOLLAND INK CORP. OF AMERICA 92 UNION STREET MINEOLA, NY 11501

EMERGENCY TELEPHONE NUMBER: (516) 294-8811

CHEMTREC 24 HOUR EMERGENCY: (800) 424-9300

HAZARDOUS INGREDIENTS

SEE COMPONENT PAGE(S) FOR ADDITIONAL INFORMATION.

OSHA HAZARD COMMUNICATION 29 CFR 1910.1000: Manganese Compound

Material Safety Data Sheet

MSDS: 11962 - CML OIL BASE PLUS COLORS

SARA TITLE III SECTION 313: 1% Cobalt Compound and 1% Mangamese Compound. Barium compounds present. Request Table I.

NEDS: 11962

CANADIAN WHMIS: None. Non-controlled product.

CALIFORNIA PROPOSITION 65: Pigment Red 53.1. Request Table I

TSCA INVENTORY: All ingredients listed.

CONEG LEGISLATION: Meets all current State Heavy Metal Limitations.

PRINCIPAL INGREDIENTS:

TMCOCDICHT

INGREDIEN	CARCINOGEN
ORGANIC PIGMENTS	NO
SYNTHETIC RESINS	NO
VEGETABLE OIL	NO
SEVERE ACID TREATED OR SOLVENT REFINED MIDDLE DISTILLATE	NO
NAPHTHENIC SEVERE HYDROTREATED MIDDLE DISTILLATE	NO
POLYMERIC WAX BLEND	NO
COBALT DRIER	NO
MANGANESE DRIER	NO

PHYSICAL DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

COEFFICIENT OF WATER/OIL DISTRIBUTION: N/A

VOLATILE ORGANIC COMPOUNDS: 1.00 - 1.20 LBS/GAL, 120-145 GRAMS/LITER, METHOD

FIRE AND EXPLOSION DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

FLAMMABILITY CLASSIFICATION:

OSHA: III B COMBUSTIBLE LIQUID

DOT: NOT REGULATED HM 181

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: N/A

Material Safety Data Sheet

MSDS: 11962 - CML OIL BASE PLUS COLORS

MSD3: 11962

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: N/A

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SPECIAL FIRE FIGHTING PROCEDURES: Self Contained Breathing Apparatus

recommended

HEALTH HAZARD AND TOXICOLOGY DATA

EFFECTS OF OVEREXPOSURE:

EYE CONTACT: Direct contact may cause irritation

SKIN CONTACT: Prolonged contact may cause minor skin irritation

INHALATION: May cause respiratory irritation

INGESTION: May cause gastrointestinal irritation

MEDICAL CONDITIONS AGGRAVATED BY NORMAL EXPOSURE: Persons with Dermatitis

should avoid skin contact

TARGET ORGANS: Skin, eyes, lungs

CARCINOGEN: NO MUTAGEN: NO TERATOGEN: NO

REPRODUCTIVE TOXICITY: NO

PRIMARY ROUTE(S) OF ENTRY: Eyes, inhalation, dermal

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Flush with water

SKIN CONTACT: Wash witha soap and water

INGESTION: Do not induce vomiting, Call a physician

INHALATION: Remove individual to fresh air.

REACTIVITY DATA

PRODUCT STABILITY: STABLE

Material Safety Data Sheat

MSDS: 11962

MSOS: 11962 - CML OIL BASE PLUS COLORS

CONDITIONS TO AVOID: STRONG OXIDIZING AGENTS

SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED: Wipe up. Dispose of wipes in approved waste containers. If Petroleum Hydrocarbon is used, provide sufficient ventilation.

WASTE DISPOSAL METHOD: Dispose of in accordance with Federal, State, and Local regulations.

SPECIAL PROTECTION INFORMATION

VENTILATION: Use sufficient ventilation

PROTECTIVE GLOVES: Gloves Recommended

RESPIRATORY PROTECTION: None required

EYE PROTECTION: Goggles recommended

OTHER PROTECTIVE EQUIPMENT: None required

SPECIAL PRECAUTIONS

HANDLING AND STORING: Avoid storage above 90 deg F. Keep containers closed when not in use.

211 2001

OTHER PRECAUTIONS: None required

SPECIAL NOTES

This information is furnished without warranty, express or implied, except that it is accurate to the best of the knowledge of Van Son Holland Ink Corporation of America. The data on this sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The Hazards covered are believed to be those most likely to occur in the reasonable or ordinary use of these materials. Van Son Holland Ink Corporation of America assumes no legal responsibility for use or reliance on this data.

End of MSDS



MATERIAL SAFETY DATA SHEET

Sun Chemical Corporation **631 CENTRAL AVENUE** CARLSTADT, NJ 07072

MSDS Distribution:

(201) 933-4500

Regulatory Information:

(201) 933-4500 Emergency Call Chemirec: (800) 424-9300 US

Outside US (703) 527-3887

Medical Emergency:

(703) 527-3887

1. PRODUCT IDENTIFICATION

Product Name

PRP50005-R

Product Description

ROTARY PMS 661-U BLUE

Product Category

Business Forms Ink

MSDS Identification No.

000000000000

MSDS Date

01/18/07

2. COMPOSITION (Hazardous Components)

This product does not contain any hazardous ingredients required to be listed under the OSHA Hazard Communication Standard (29 CFR 1910,1200).

3. PRODUCT HAZARDS IDENTIFICATION

Potential Health Effects

Dermal contact is expected to be the primary route of occupational exposure. The following statements are based upon an assessment of the health effects associated with the components present in this product mixture.

Eye

This product may cause mild transient eye irritation. Direct contact may cause redness, tearing and stinging.

Skin

Brief contact with this product should not result in skin irritation. Prolonged or repeated exposure may remove the skin's natural oils resulting in redness, itching and drying of the skin.

Inhalation

This product is not expected to cause respiratory tract irritation under conditions of intended use.

Ingestion

Ingestion of amounts incidental to normal industrial handling are unlikely to cause adverse health effects. Deliberate ingestion of excessive quantities may result in gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Please see Section 14 for additional details.

Medical Conditions Aggravated by Exposure

Preexisting skin disorders may be aggravated by exposure to this product.

4. FIRST AID MEASURES

Eye Contact

In case of direct contact, flush eyes with clean water for at least 15 minutes. Seek medical attention if irritation or redness develops and persists.

Skin Contact

Remove contaminated clothing. Wash affected area thoroughly with soap and water. Seek medical attention if irritation or redness develops and persists.

Inhalation

If breathing difficulties develop, remove affected person away from source of exposure into fresh air. Seek medical attention.

Ingestion

Ingestion is an unlikely route of exposure under normal industrial conditions. However, if appreciable quantities of this product are accidentally swallowed, seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash Point (degree F)

Equal or greater than 200 F (Closed Cup)

Flash Point Category (OSHA/NFPA)

IIIB

Lower Flammability Limit in Air (% by Voi)

1.1

NOTE: Flash point value/category has been derived from testing of products of similar composition.

Extinguishing Media

Extinguish with a multipurpose fire fighting foam, dry chemical or carbon dioxide.

Fire Fighting Instructions

The use of self-contained breathing apparatus is recommended for firefighters. Water spray may be used to cool containers exposed to heat near flame. Avoid spreading burning liquid with water used for cooling purposes.

Fire and Explosion Hazards

This product will support combustion and may be ignited by extreme heat or flame. Closed containers may build up pressure and rupture when subjected to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Keep unnecessary personnel away from spill area. Ventilate area of spill; use appropriate personal protective equipment.

For large spills, contain the spill by diking with sand or other inert material. Keep out of drains, sewers or waterways. Transfer product to suitable containers for recovery or disposal. Do not flush area with water. If necessary, follow emergency response procedures.

For small spills; do not flush with water; use an inert absorbent material.

7. HANDLING AND STORAGE

Keep containers tightly closed. Keep containers cool and dry. Protect from freezing. Use and store this product with adequate ventilation. Use appropriate protective equipment when handling this product and maintain good personal hygiene practices.

This product contains vegetable oil ingredients. Rags or waste paper containing natural, oxidizing vegetable oils can burn spontaneously. Store wiping rags containing this product in metal cans with tight lids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide adequate general (dilution) and/or local exhaust ventilation. It is suggested that a source of clean water be made available in work area for flushing eyes and skin.

Personal Protective Equipment

Eye / Face Protection

The use of chemical splash goggles or safety glasses is recommended to prevent eye contact.

Skin Protection

The use of impermeable, solvent resistant gloves is advised to prevent skin contact. Use chemical resistant apron if splash hazard exists.

Respiratory Protection

Respiratory protection is typically not required under conditions of normal use. However, unusually high concentrations of vapor may require respiratory protection.

Established Exposure Guidelines

No ACGIH or OSHA exposure guidelines have been established for any of the components in this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Bolling Point / Range (degree F)

Typical Density (lbs/gal)

Vapor Density (excluding water) vs. Air

Evaporation Rate (vs. Butyl Acetate)

Appearance

Volatile Organic Compounds (wt%) - EPA Method 24 NOTE: Value derived from Method 24 data on components.

300 F - 578 F

8.33

Heavier

Not Applicable

Blue Paste

4.80

10. STABILITY AND REACTIVITY

Stability

Stable. Hazardous polymerization will not occur.

Conditions to Avoid

Keep product away from heat, sparks, and open flames.

Incompatibility

This product is incompatible with strong acids or bases and oxidizing agents.

Hazardous Decomposition Products

By high heat and fire: carbon dioxide, carbon monoxide and/or oxides of nitrogen and sulfur.

11. TOXICOLOGY OF COMPONENTS

Toxicological information is presented only for the hazardous components identified in Section 2 of the MSDS.

12. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, county, state and federal environmental regulations. Do not introduce this product directly into public sewer systems.

Emptied containers may retain product residues, all precautions given in this data sheet should be observed.

13. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)

The chemical components of this product are listed or have been registered for inclusion on the Section 8(B) Chemical Substance Inventory List (40 CFR 710).

EPCRA Section 313 Supplier Notification

This product does not contain any substances in quantities which must be reported under the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Clean Air Act Amendment (HAPs)

This product does not contain any substances which are defined as Hazardous Air Pollutants under Title III of the Clean Air Act Amendments of 1990.

Clean Air Act Amendment (ODC's)

This product does not contain and is not manufactured with any of the ozone depleting chemicals listed under Section 602 of the Clean Air Amendments of 1990.

California Proposition 65

This product does not contain any chemicals which are defined by the state of California to cause cancer and/or reproductive toxicity.

CONEG

This product is certified to be in full compliance with CONEG Model Toxics Legislation for packaging and packaging components.

OSHA Hazard Communication Label for Product THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS COMPONENTS AS DEFINED BY OSHA, 29 CFR 1910.1200 Please refer to the MSDS for more details.

Keep away from heat and flame.

Keep containers closed.

Use with adequate ventilation.

Avoid contact with eyes, skin and clothing.

Use appropriate personal protective equipment.

Wash thoroughly after handling.

FIRST AID: In case of contact, flush eyes or skin with plenty of water.

Remove contaminated clothing. Seek medical attention if irritation

develops or persists. If inhaled, remove to fresh air. Seek medical

attention if breathing difficulties develop.

IN CASE OF FIRE, use a multipurpose fire fighting foam, dry chemical or

carbon dioxide.

Empty containers may retain product residues, all hazard precautions given

on this label should be observed.

DO NOT REMOVE THIS LABEL.

14. ADDITIONAL COMMENTS

This product contains a petroleum middle distillate. Similar composition middle distillates have been found to be weakly to moderately tumorigenic in mouse skin painting bio-assays. It is suspected these tumors may be due part to chronic skin irritation resulting from continous contact with the test substance.

The International Agency for Research on Cancer has concluded that light and intermediate middle distillates are Group 3 substances, "not classifiable as to their carcinogenicity to humans," based on inadequate human and inadequate animal evidence.

This material is not carcinogenic according to the OSHA Hazard Communication Standard.

Hazardous Materials Information System (HMIS)

Health 1

Flammability 1

Reactivity 0

NOTICE: These ratings are intended only for the immediate and general identification of acute hazards. Sun Chemical is providing this information on a voluntary basis as a guide for our customers. The use and interpretation of this information may vary from company to company. All information contained in this data sheet should be considered in order to adequately deal with the safe handling of this material.

Revision Date

05/25/06

The information presented in this data sheet represents a compilation of information generated from our suppliers and other recognized sources of scientific evidence and chemical information. To the best of our knowledge and belief, it is accurate and reliable as of the date of is the. However, no warranty, express or implied, including any warranty of merchantability, fitness for any use, or any other guarantee is offered or implied regarding the accuracy of such data, the results to be obtained from the use thereof, the safety or his product, or the hazards connected with the use of this material. Since the conditions of handling and use of this material are beyond our control, Sun Chemical shall assume no

RE: PRP50005-R - ROTARY PMS 661-U BLUE

Sun Chemical Corporation 631 CENTRAL AVENUE CARLSTADT, NJ 07072

January 18, 2007

HEALTH AND SAFETY DEPT

Dear Custo en

The Occupational Safety and Health Administration's (OSHA) Hazard Communication Starting requires employers to inform their personnel of the hazards of chemicals used in the workplace. Material Safety Data Sheets (MSDS) are one means required by OSHA to provide the necessary information.

As part of Sun Chemical's program to communicate health and safety information to our customers, we have enclosed our most current Material Safety Data Sheet. This MSDS meets the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

In addition, Section 13 of the enclosed MSDS provides supplier notification information required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 (40 CFR 372). This legislation (also referred to as SARA, the Superfund Amendments and Reauthorization Act) requires certain manufacturers to report on annual emissions of specified toxic chemicals and chemical categories.

We would like to remind you that OSHA regulations require information contained in this MSDS to be communicated and made accessible to your employees. We suggest you read the enclosed material and forward it to the appropriate personnel within your company. Any copies or other redistribution of the data sheet must include the EPCRA Section 313 supplier notification.

In accordance with these regulations and Sun Chemical's hazard communication program, we will continue to forward updated MSDS's to your attention for those products which you purchase. Additional copies of the enclosed MSDS and product specifications may be obtained by calling (201) 933-4500. Should you have any questions related to the content of the data sheet or for additional compliance information please contact our Regulatory Group at (201) 933-4500. Emergency Call Chemtrec (800) 424-9300 US, Outside US (703) 527-3887. Medical Emergency (703) 527-3887.

MSDS Distribution Department



Personal protection



Material Safety Data Sheet

Product and company identification

0

Product code

Reactivity

: PRI90084B/K333

Product name

: SOY INSERT DENSE BLACK

Material uses

: Printing, Colorant,

Manufacturer/ Distributor

: Sun Chemical Corporation

631 Central Avenue Carlstadt, NJ 07072

in case of emergency

: (800) 424-9300 (U.S.)

(703) 527-3887 (International)

Regulatory information

: Canada: (905) 796-2222

(201) 933-4500

Other information

: (513) 830-8500

Date of revision

: 8/8/2014.

Hazards identification

Physical state

: Liquid.

Color

: Black.

OSHA/HCS status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Emergency overview

Routes of entry

: No known significant effects or critical hazards.

Dermal contact, Inhalation.

Potential acute health effects

Eyes Skin

: May cause mild eye irritation.

: May cause mild skin irritation.

Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Ingestion

: No known significant effects or critical hazards.

Carcinogenic effects

Potential chronic health effects(Long term exposure)

Mutagenic effects

: No known significant effects or critical hazards. : No known significant effects or critical hazards.

Teratogenicity /

: No known significant effects or critical hazards.

Reproductive toxicity

See toxicological information (Section 11)

3. Composition/information on ingredients

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures

Eye contact

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact

: In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

5. Fire-fighting measures

Flammability of the product Products of combustion

: In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire

Not suitable

: None known.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Flammability JOSHA criteria)

: 1116

Flash point

: Lowest known value: >93,3°C (200°F) (Closed cup)

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

 Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Special remarks on fire hazards

: Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. (Soybean oil)

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Engineering measures

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin

 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory

: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Physical and chemical properties

Physical state

: Liquid,

Color Odor : Black.

Cuoi

: Not available

Boiling/condensation point

: Lowest known value: 288°C (550°F)

Melting/freezing point

: May start to solidify at the following temperature: >300°C (>572°F) This is based on data for the following ingredient: C.I. Pigment Blue 61. Weighted average: 218.25°C (424.9°F)

Flash point

: Lowest known value: >93.3°C (200°F) (Closed cup)

: 3725%

Auto-ignition temperature

: Ebwest known value: 225°С (437°F) (Hydrotreated Middle Distillate).

Density

: if.086 g/cm3 (9.059 lbs/gal)

Vapor density

: Highest known value: >1 (Air = 1) (Soybean oil). Weighted average: 1.1 (Air = 1)

30- March- 2015

en - US

Page: 3/6

9. Physical and chemical properties

Evaporation rate

: Highest known value: <1 (Soybean oil) Weighted average. 0 9compared with butyl acetate

10. Stability and reactivity

Stability and reactivity

: The product is stable.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur.

Reactivity - Light

: Not applicable.

Conditions of reactivity

•

11. Toxicological information

Acute toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

: No known significant effects or critical hazards

Conclusion/Summary Carcinogenicity

: No known significant effects or critical hazards.

Conclusion/Summary

Mutagenicity

Conclusion/Summary

<u>Teratogenicity</u>

: No known significant effects or critical hazards.

Conclusion/Summary

: No known significant effects or critical hazards

Reproductive toxicity
Conclusion/Summary

: No known significant effects or critical hazards.

12. Ecological information

Environmental effects

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Conclusion/Summary

: Not available.

Biodegradability |

Other adverse effects

Conclusion/Summary

Not available.No known significant effects or critical hazards

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Refer to protective measures listed in sections 7 and 8. Empty containers or liners may retain some product residues

14. Transport information

Not regulated.

15. Regulatory information

HCS Classification

: Not regulated.

TSCA 8(b) inventory

: Listed

U.S. Federal regulations

: TSCA 4(a) final test rules: C.I. Pigment Blue 61; Polytetrafluoroethylene

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

ITSCA 8(a) PAIR: naphthalene

TSCA 12(b) one-time export: C.I. Pigment Blue 61

TSCA commerce control list:

Not listed

SARA 302/304: Hydroquinone

SARA 311/312 Hazard's Identification: Not regulated.

©lean Water Act (CWA) 307: naphthalene; benzene

©lean Water Act (CWA) 311: naphthalene; benzene

SARA 313

Product name

CAS number

Concentration

Supplier notification : None identified.

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

CONEG

: In compliance.

International lists

International lists

: Canada inventory: All components are listed or exempted.
Australia inventory (AICS): At least one component is not listed.
China inventory (IECSC): At least one component is not listed.
Japan inventory: Not determined.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.

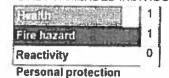
Philippines inventory (PICCS): At least one component is not listed. Europe Inventory: Please contact your supplier to get the information.

16. Other information

Label requirements

: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material Information System (U.S.A.)



Version : 1.01

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

PR:900848

16. Other information

30- March- 2015 en - US Page: 6/6

VOLATILE COMPONENT INFORMATION

A Prod	luct Density:	US EPA Designate
1.)	1.086 g/cm³ (9.059 lbs/gal)	=(Dc)s
B. Nonv	volatile Content:	
1)	96.73 Weight percent of nonvolatiles in product	=(Wn)s
2.)	95.92 Volume percent of nonvolatiles in product	=(Vn)s
3.)	9.13 Density, Ib nonvolatiles/gal nonvolatiles	=(Dn)s
C. Volat	tiles:	
1.)	3.27 Weight percent of total volatiles in product	=(Wv)s
2.)	7.26 Density, Ib volatiles/gal volatiles	=(Dv)s
D. Wate	er Content;	
1,.)	0.02 Weight percent of water in product	=(Ww)s
2.)	0.02 Volume percent of water in product	=(Vw)s
E. Volati	ile Organic Compounds, (VOCs):	
1;)	3.25 Weight percent of organic volatiles in product	=(Wo)s
2.)	4.05 Volume percent of organic volatiles in product	=(Vo)s
3.)	7.26 Density, Ib organic volatiles/gal organic volatiles	=(Do)s
4.)	99.39 Weight percent of VOCs in total volatiles	=(Wo)v
5.)	99.39 Volume percent of VOCs in total volatiles	=(Vo)v
F. VOC	Content in Product Expressed in Other Terms:	
1.) a.)	0.29 lb VOC / gal Product	
1.) b.)	35.28 grams VOC / liter Product	
2.) a.)	0.3 lb VOC / gal Product less water & exempt solvent	
2.) b.)	35.43 grams VOC / liter Product less water & exempt solvent	
2.) c.)	3.25 Weight percent of organic volatiles (VOC) in Product less water & exempt solvents.	
3.)	0.31 lb VOC / gal total nonvolatiles	

G.	Vol	atil	es
----	-----	------	----

Ingredient	CAS number	% by weight Density (lb/gal)	
Hazardous Air Pollutants VOCs (HAPs) Other VOCs (Non-HAPs)		0	
Hydrotreated Middle Distillate	64742-46-7	1:58	7.17
2,2,4-tri-Methyl-1,3-Pentanediol Di-isobutyrate	6846-50-0	1	7.87
LIGHT HYDROTREATED PETROL Distillate	64742-47-8	0.65	6.59 to 6.84
VOC's present at <0.10% (cumulative)		0:01	6.8
3.) water	7732-18-5	0.02	8,34
4.) Ammonia (reported as CAS# 7664-41-7; includes	7664-41-7	0	5.99
CAS# 1336-21-6)			
5.) Other Non-VOC, Non-HAP Volatiles		0	

NOTE: The term Volatile Organic Compounds (VOC) refers only to volatile organic materials as defined by the US EPA and does not include water, ammonia, acetone or other exempt solvents. Unless otherwise stated, the VOC values reported above are based on materials of construction.

Sun Chemical Latin America Parque Ind. Comandante,

Carolina USA

PR 00984



000002

CCL LABEL (SAN GERMAN), INC. PARQUE INDUSTRIAL EL RETIRO SAN GERMAN, PR 00683 Puerto Rico

March 30, 2015

Save Money! Be Green! Receive MSDS electronically! Email your request to regulatory.emsds@sunchemical.com

Ayez une pensée pour l'environnement ! Gagnez du temps et de l'argent ! Recevez vos FDS par voie électronique! Envoyez vos demandes à regulatory.emsds@sunchemical.com

Ahorra dinero! Cuida el medio ambiente! Recibe las Hojas de Seguridad por correo electrónico! Envoyez vos demandes a regulatory.emsds@sunchemical.com

Sparen Sie Geld! Handeln Sie umweltbewußt! Fordern Sie Sicherheitsdatenblätter in elektronischer Form an-Richten Sie Ihre E-Mail an; regulatory.emsds@sunchemical.com

Risparmia soldi! Sii ecologico! Ricevi MSDS in formato elettronico! Invia la tua richiesta all'indirizzo regulatory.emsds@sunchemical.com

Poupe dinheiro! Seja verde! Receba as F.D.S. electronicamente! Envie o seu pedido para o email regulatory.emsds@sunchemical.com



MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard (29 CFR 1910-1200) and the American National Standards Institute Standard for MSDSs (ANSI Z400 1)

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION				
Manufactured by: Superior Printing Ink Co. Address: 100 North Street Teterboro, NJ 07608	. Inc. Identity (Trade name as used on label) Product Class: Oxidizing Offset Inks Trade name: ELITE PRECISION PANTONE® COLORS Item Nes.: All Codes (see page 2)			
Date Prepared: October 20, 2014	Prepared By: Charmain Page-Walthrus			
Information Calls: (201) 478-5600	DOT Emergency Response: (201) 478-5600			

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview: Colored paste with mild odor.
Can cause skin, eye, or respiratory tract irritation.
Combustible – may burn, but will not ignite readily; fire fighters should be equipped with self-contained breathing apparatus and turnout gear.

Potential Health Effects:

Skin - Prolonged or repeated contact with liquid can cause irritation and/or dermatitis.

Eyes - Vapors and splashes to the eyes are moderately irritating.

Inhalation – Irritating to the respiratory tract and mucous membranes.

Ingestion – Causes irritation to the gastrointestinal tract, symptoms may include nausea, vomiting and diarrhea.

Conditions Aggravated by Exposure: Persons with pre-existing skin disorders may be more susceptible to the effects of exposure

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Wt. %
Vegetable Oils	Mixture	19 - 40
Sweetened Middle Distillate	64741-86-2	
Technical White Oil	8042-47-5	2 – 28
Resins	Mixture	21 - 38
Pigments	Mixture	14 – 30
Warm Red Pigment (Barium Compound)	5160-02-1 / 7585-41-3	29 / 25
Additives	Mixture	4 – 10
Manganese Compound	27253-32-3; 15956-58-8	0.5 - 2

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush with water for at least 15 minutes: Ingestion: If swallowed, seek immediate medical attention. Do NOT induce seek medical attention. vomiting unless directed to do so by medical personnel

Skin Contact: Remove contaminated clothing: launder before re-use. Inhalation: Immediately remove to fresh air. Seek medical attention. Wash skin with snap and water; if irritated, seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point(°F): > 200 SETA CC Auto Ignition Temperature: No Data Explosion Limits: No Data

Extinguisher Media: Foam, dry chemical; use water spray to cool exposed surfaces. When water is used, fog nozzles are preferable

Unusual Fire & Explosion Hazards: Dense smoke may be generated when burning. Vapors are heavier than air and can accumulate in low areas. Fire media run-off can damage the environment. Dike and collect media used to fight fire.



ELITE PRECISION PANTONES COLORS

Page 2

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For small incidental spills and leaks, wear protective gloves and eye protection. Stop source of leak or spill. Isolate area of spill by diking, and/or add dry absorbent to prevent it from entering sewers, drains or waterways. Clean up and place in an appropriate container for disposal. Wash all contaminated clothing before reuse, discard contaminated leather shoes.

For larger spill requiring emergency response, follow OSHA emergency response regulations and NIOSH recommendations. If possible, stop source of spill or release. Isolate the area of spill or release by diking to prevent it from entering sewers, drains or waterways. Clean up and place in a container approved for oily waste for disposal.

SECTION 7 - HANDLING/STORAGE

Avoid contact with eyes, skin or clothing. Avoid breathing mist or vapor. Wash hands thoroughly before eating, smoking or using toilet facilities. Do not eat, drink or smoke in work areas. Wash contaminated work clothing before reuse. Keep container closed when not in use. Use only with adequate ventilation. Store in a cool, dry, well-ventilated area.

SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Ventilation: Good, general ventilation should be sufficient for most operations. Ten or more room air changes per hour containing a minimum of 15 percent fresh air are recommended.

Personal Protection: Sofety glasses and gloves impervious to the hazardous ingredients are recommended. If used under normal operating conditions, and with adequate ventilation, respiratory equipment is not required. Avoid excessive inhalation of ink mist.

OIL MIST	
OSHA TLV	ACGIII PEL
5 mg/m³	5mg/m ¹

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colored Paste

TYPE OF ODOR: Mild

LIQUID DENSITY vs. water: Heavier VAPOR DENSITY vs. air: Heavier

BOILING RANGE (°F): 520 - 578

pH: 6-8

EVAPORATION RATE vs. Butyl Acetate: Slower

SOLUBILITY IN WATER: None

COLOR	PRODUCT №	VOC. WT.%	SPECIFIC GRAVITY	LBS/GAL	VOC LBS/GAI
YELLOW	YA-2000	15.0	0.98	8 23	1 42
WARM RED	MRA-1000	11.2	111	9.28	1.11
WARM RED COATABLE	MRA-1001	10.5	1 08	9 03	1 69
RUBINE RED	DRA-1000	22.3	1 02	8.50	2 00
RUBINE RED COATABLE	DRA-1001	158	1 01	8 44	0 89
RHODAMINE RED	DRA-2000	136	1 09	9 08	1 27
RHODAMINE RED COATABLE	DRA-2001	10 9	1 04	8 66	0.93
PLIRPLE	PA-1000	19.7	1 04	8 66	1 64
PURPLE COATABLE	PA-1001	62	1 02	8 49	0.65
VIOLET	PA-2000	22.7	1.06	6.82	2.03
VIOLET COATABLE	PA-2001	20	1.03	8 60	0.13
PROCESS BLUE	MBA-1000	119	t 09	9 08	2.36
REFLEX BLUE	DBA-1600	182	1 03	8 57	1.34
REFLEX BLUE COATABLE	DBA-1001	8.8	1 06	8 87	1.55
GREEN	MGA-1000	23,5	1 08	9 00	2.34
TRANSPARENT WHITE	W-1000	28 4	0.95	7 90	1 58
NEUTRAL BLACK	A-1000	156	1 09	9 07	1.80
PANTONE® 012C YELLOW	YC-3960	25 3	0 95	7.92	2 50
PANTONE WULLC ORANGE	OA-8553	136	1 07	8 92	1 20
PANTONE® 021C ORANGE COATABLE	OA-8585	12.8	1 06	8 84	1 10
PANTONE® 032C RED	MRC-1403	130	1 13	9.42	1 20
PANTONE® 032C RED COATABLE	MRC-4434	104	1.07	8 92	0 90
PANTONE® 072C BLUE	DBD-9639	15 1	1 00	£ 34	1 30
PANTONE® 072C BLUE COATABLE	DBD-9691	59	1.08	9 01	0.50



MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard (29 CFR 1910 1200) and the American National Standards Institute Standard for MSDSs (ANSI Z400 1)

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION				
Manufactured by: Superior Printing Ink Co., Inc. Address: 100 North Street Teterboro, NJ 07608	Identity (Frade name as used on label) Product Class: Oxidizing Offset links Trade name: ELITE PRECISION PANTONE® COLORS Item Nes.: All Codes (see page 2)			
Date Prepared: October 20, 2014	Prepared By: Charmain Page-Walthrus			
Information Calls: (201) 478-5600	DOT Emergency Response: (201) 478-5600			

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview: Colored paste with mild odor.

Can cause skin, eye, or respiratory tract irritation.

Combustible – may burn, but will not ignite readily; fire fighters should be equipped with self contained breathing apparatus and turnout gear.

Potential Health Effects:

Skin - Prolonged or repeated contact with liquid can cause irritation and/or dermatitis. Eyes - Vapors and splashes to the eyes are moderately irritating.

the lattice of the respiratory tract and mucous membranes.

Inhalation – Irritating to the respiratory tract and mucous membranes.

Ingestion – Causes irritation to the gastrointestinal tract, symptoms may include nausea, vomiting and diarrhea.

Conditions Aggravated by Exposure: Persons with pre-existing skin disorders may be more susceptible to the effects of exposure

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Wt. %
Vegetable Oils	Mixture	19 – 40
Sweetened Middle Distillate	64741-86-2	
Technical White Oil	8042-47-5	2 - 28
Resins	Mixture	21 + 38
Pigments	Mixture	14 – 30
Warm Red Pigment (Barium Compound)	5160-02-1 / 7585-41-3	29 / 25
Additives	Mixture	4 – 10
Manganese Compound	27253-32-3; 15956-58-8	0.5 – 2

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush with water for at least 15 minutes: seek medical attention.

Ingestion: If swallowed, seek immediate medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Skin Contact: Remove contaminated clothing: launder before re-use Wash skin with soap and water; if irritated, seek medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point(°F): > 200 SETA CC

Auto Ignition Temperature: No Data

Explosion Limits: No Data

Extinguisher Media: Foam, dry chemical; use water spray to cool expused surfaces. When water is used, fog nozzles are preferable.

Unusual Fire & Explosion Hazards: Dense smoke may be generated when burning. Vapors are beavier than air and can accumulate in low areas Fire media nm-off can damage the environment. Dike and collect media used to light fire.

MATERIAL SAFETY DATA SHEET

Sun Chemical Corporation

KOHL & MADDEN - MINNEAPOLIS

782 29TH AVENUE SE MINNEAPOLIS, MN 55414 UNITED STATES OF AMERICA

MSDS Distribution:

(612) 378-4237

Regulatory Information:

(201) 933-4500

Emergency Phone No.:

(201) 804-8228

(24 hours)

I. PRODUCT IDENTIFICATION

Product Name

Relay Process Series items (see attached list)

Product Description

Printing Ink

Product Category

Sheetfed

MSDS Date

3/24/09

2. PRODUCT HAZARDS IDENTIFICATION

Physical state

: Liquid

OSHA/HCS status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this

product.

Emergency Overview

: No known significant effects or critical hazards.

Routes of entry

: Dermal contact. Inhalation.

Potential acute health effects

Eve Skin : May cause mild eye irritation. : May cause mild skin irritation.

Inhalation

: No known significant effects or critical hazards.

Ingestion Carcinogenic effects

: No known significant effects or critical hazards. : No known significant effects or critical hazards.

Mutagenic effects Teratoenicity /

: No known significant effects or critical hazards. : No known significant effects or critical hazards.

Reproductive toxicity

See toxicological information (section 11)

3. COMPOSITION (Hazardous Components)

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. FIRST AID MEASURES

Eye Contact

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Skin Contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

Ingestion

: Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

5. FIRE FIGHTING MEASURES

Flammabllity of the product
Products of combustion

: No specific hazard.

: Decomposition products may include the following materials: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂, etc.), sulfur oxides (SO₂, SO₃, etc.).

Some metallic oxides.

2 -continued on next page-

Extinguishing Media

Sultable

Not sultable

Special exposure hazards

for fire-fighters

: Not available.

: None known.

Special protective equipment : Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in

: Use an extinguishing agent suitable for the surrounding fire.

positive pressure mode.

Special remarks on fire hazards

: Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end

of each working day and be stored outside. (Linseed Oil)

Flammability (OSHA criteria): IIIB

Flash Point

: Lowest known value: >93.3°C (>200°F) Closed Cup (Tagliabue.)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up

: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. HANDLING AND STORAGE

Handling Storage

: Wash thoroughly after handling.

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. (Linseed Oil)

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Engineering measures

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal Protection

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory

: Use a properly fitted, air, purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves comply with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: Liquid

Boiling/condensation point

: Lowest known value: 248.889°C (480°F)

Flash Point

: Lowest known value: >93.3°C (>200°F) Closed cup (Tagliabue.)

Auto-ignition temperature

: Lowest known value: 342.85°C (649.1°F) (Linseed Oil).

Density (ibs/gai)

: I g/cm³ (8.347 lbs/gal)

Vapor density
Evaporation rate

: Highest known value: >1 (Air=1) (Soybean Oil) Weighted average: 1.1 (Air) : Highest known value: <1 (Linseed Oil) Weighted average: 0.9 compared

with Butyl acetate.

^{4 -}continued on next page-

10. STABILITY AND REACTIVITY

Stability and reactivity

: The product is stable.

Reactivity - Light

: Not applicable.

11. TOXICOLOGICAL INFORMATION

Specific effects

Carcinogenic effects Mutagenic effects

: No known significant effects or critical hazards. : No known significant effects or critical hazards.

Teratogenicity /

: No known significant effects or critical hazards.

Reproductive toxicity

Irritant/Sensitization

Ingestion Inhalation : No known significant effects or critical hazards. : No known significant effects or critical hazards. : No known significant effects or critical hazards.

Eves Skin : No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

No known significant effects or critical hazards.

Products of degradation

: Decomposition of precuts may include the following materials: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂, etc.), sulfur oxides (SO₂, SO₃, etc.). Some

metallic oxides.

blodegradation

Toxicity of the products of : The product itself and its products of degradation are not toxic.

13. DISPOSAL CONSIDERATIONS

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Refer to protective measures listed in sections 7 and 8.

Empty containers or liners may retain some product residues.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

HCS Classification TSCA 8(b) Inventory U.S. Federal regulations

- : Not regulated.
- : Listed
- : TSCA 4(a) dioxins/furanes testing: No products were found.
 TSCA 4(a) final testing order: No products were found.
 TSCA 4(a) final test rules: No products were found.
 TSCA 4(a) ITC priority list: No products were found.
 TSCA 4(a) proposed test rules: No products were found.
 TSCA 5(a) final significant rules: No products were found.
 TSCA 5(a)2 proposed significant rules: No products were found.
 TSCA 5(e) substance consent order: No products were found.
 TSCA 6 final risk management: No products were found.
 TSCA 6 proposed risk management: No products were found.
 TSCA 8(a) CAIR: No products were found.
 TSCA 8(a) chemical risk rules: No products were found.
 TSCA 8(a) dioxin/furan precursor: No products were found.

TSCA 8(a) IUR: No products were found. TSCA 8(a) PAIR: No products were found.

TSCA 8(c) calls for record of SAR: No products were found.
TSCA 8(d) H and S data reporting: No products were found.
TSCA 12(b) annual export notification: No products were found.

TSCA 12(b) one-time export: No products were found. TSCA precursor chemical list: No products were found. TSCA commerce control list: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) I l2 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

Sara 313

CONEG

- : None identified
- : In compliance

6 -continued on next page-

CANADA INVENTORY (DSL)

AUSTRALIAN INVENTORY

(AICS)

CHINA INVENTORY (IECS)

EC INVENTORY

(EINECS/ELINCS)

JAPAN INVENTORY (ENCS) KOREA INVENTORY (ECL)

New Zealand Inventory

(HASNO)

PHILLIPPINE INVENTORY

(PICCS)

: Listed

· Not determined.

: Not determined.

16. OTHER INFORMATION

Label requirements

: CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, RESPIRATORY TRACT, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.

Hazardous Material Information System (U.S.A.)

Health	*	1
Fire hazard		1
Reactivity		0

Personal protection

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Sun Chemical Corporation
KOHL & MADDEN – MINNEAPOLIS
782 29^{TI} AVENUE SE
MINNEAPOLIS, MN 55414
UNITED STATES OF AMERICA

March 24, 2009

To: Customer

RE: Relay Process Series items (see attached list)

Dear Customer:

The Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard requires employers to inform their personnel of the hazards of chemicals used in the workplace. Material Safety Data Sheets (MSDS) are one means required by OSHA to provide the necessary information.

As part of Sun Chemical's program to communicate health and safety information to our customers, we have enclosed our most current Material Safety Data Sheet. This MSDS meets the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

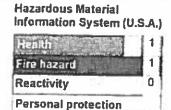
In addition, Section 13 of the enclosed MSDS provides supplier notification information required under Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 (40 CFR 372). This legislation (also referred to as SARA, the Superfund Amendments and Reauthorization Act) requires certain manufacturers to report on annual emissions of specified toxic chemicals and chemical categories.

We would like to remind you that OSHA regulations require information contained in this MSDS to be communicated and made accessible to your employees. We suggest you read the enclosed material and forward it to the appropriate personnel within your company. Any copies or other redistribution of the data sheet must include the EPCRA Section 313 supplier notification.

In accordance with these regulations and Sun Chemical's hazard communication program, we will continue to forward updated MSDS's to your attention for those products which you purchase. Additional copies of the enclosed MSDS and product specifications may be obtained by calling (508) 339-3526. Should you have any questions related to the content of the data sheet or for additional compliance information please contact our Regulatory Group at (201) 933-4500. Emergency health or spill response information can be obtained by calling (210) 804-8228 (24 hours).

MSDS Distribution Department

CODE	DESCRIPTION	VOC%
NSP4449R4	RELAY PROCESS BLACK	8
NSP4445A1	RELAY PROCESS CYAN	6
NSP4444A1	RELAY PROCESS MAGENTA	11
NSP4442A1	RELAY PROCESS YELLOW	13





Material Safety Data Sheet

Product and company identification

Product code

: FS2H804133

Product name

: FS2H804133 VTHERM DK BROWN G293

Material uses

: Printing Colorant.

Manufacturer/ Distributor

: Sun Chemical Corporation 631 Central Avenue

Carlstadt, NJ 07072

In case of emergency

: (800) 424-9300 (U.S.)

(703) 527-3887 (International)

Regulatory information

: Canada: (905) 796-2222

US: (201) 933-4500

Other information

: (513) 830-8500

Date of revision

: 2/17/2015

Hazards identification

Physical state

: Liquid

Color

: Brown

OSHA/HCS status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910 1200), this MSDS contains valuable information entical to the safe handling and proper use of the product. This MSDS should be retained and

available for employees and other users of this product.

Emergency overview

Routes of entry

: No known significant effects or critical hazards.

Dermal contact, Inhalation,

Potential acute health effects

Eyes Skin

: May cause mild eye irritation. : May cause mild skin irritation.

Inhalation

: Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Ingestion

: No known significant effects or critical hazards.

Potential chronic health effects(Long term exposure)

Carcinogenic effects

: No known significant effects or critical hazards.

Mutagenic effects

: No known significant effects or critical hazards.

Teratogenicity /

: No known significant effects or critical hazards.

Reproductive toxicity

See toxicological information (Section 11)

3. Composition/information on ingredients

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures

Eye contact

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact

: In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

5. Fire-fighting measures

Flammability of the product

: In a fire or if heated, a pressure increase will occur and the container may burst.

Products of combustion

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known,

Special exposure hazards

 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

equipment for fire-fighters
Flammability (OSHA criteria)

: 1116

Flash point

: Lowest known value: >93.3°C (200°F) (Closed cup)

Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note see Section 1 for emergency contact information and Section 13 for waste disposal.

Handling and storage 7.

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Special remarks on fire hazards

: Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. (Soybean oil)

Exposure controls/personal protection 8.

Consult local authorities for acceptable exposure limits.

Engineering measures

: Bood general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

Eyes

: Bafety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

Respiratory

: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Physical and chemical properties

Physical state

: Liquid.

Color

: Brown

Odor

: Not available.

Boiling/condensation point

: Lowest known value 288 C (550 F)

Melting/freezing point

: May start to solidify at the following temperature: 0°C (32°F) This is based on data for the following ingredient. Severely Treated Light Naphthenic Distillate.

Flash point

: Lowest known value >93 3 C (200 F) (Closed cup)

Auto-ignition temperature

: Lowest known value: 342.85°C (649.1°F) (Linseed oil).

Density

: 17.06 g/cm3 (8.844 lbs/gal)

Vapor density

: Highest known value: >1 (Air = 1) (Soybean oil). Weighted average: 1.1 (Air = 1)

19- February - 2015

en - US

Page: 3/5

Physical and chemical properties 9.

Evaporation rate

: Highest known value: <1 (Soybean oil) Weighted average: 0.9compared with butyl acetate

10. Stability and reactivity

Stability and reactivity

: The product is stable.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Hazardous polymerization

Under normal conditions of storage and use, hazardous polymerization will not occur.

Reactivity - Light

: Not applicable.

Conditions of reactivity

11. Toxicological information

Acute toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary

: No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary

: No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary

: No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

12 . Ecological information

Environmental effects

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Conclusion/Summary

: Not available.

Biodegradability

Conclusion/Summary : Not available.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

Refer to protective measures listed in sections 7 and 8. Empty containers or liners may retain some product residues.

14. Transport information

Not regulated.

19-February- 2015 en - US Page: 4/5

15. Regulatory information

HCS Classification

: Not regulated,

TSCA 8(b) inventory

: Listed

U.S. Federal regulations

: TSCA 4(a) final test rules: Polytetrafluoroethylene

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA commerce control list.

Not listed

BARA 302/304: Hydroquinone

SARA 311/312 Hazards identification: Not regulated.

Elean Water Act (CWA) 307: 3,3'-dichlorobenzidine; benzene

Clean Water Act (CWA) 311: benzene

SARA 313

Product name

CAS number

Concentration

Supplier notification

: Barium Compounds

5160-02-1

34

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

CONEG

: In compliance.

International lists

International lists

: Canada inventory; All components are listed or exempted.
Australia inventory (AICS): At least one component is not listed.
China inventory (IECSC): At least one component is not listed.
Japan inventory: At least one component is not listed.
Korea inventory: At least one component is not listed.

New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.

Philippines inventory (PICCS): At least one component is not listed. Europe Inventory: Please contact your supplier to get the information.

16. Other information

Label requirements

: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material Information System (U.S.A.) Health
Fire hazard
Reactivity

Personal protection

Version

: 0.02

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

F52H5C4133

VOLATILE COMPONENT INFORMATION

		US EPA Designate
A. Prod 1.)	tuct Density: 1.06 g/cm³ (8.844 lbs/gal)	=(Dc)s
137	1.00 grain (0.044 lbargar)	-(50)3
B. Non	volatile Content:	
1.)	97.35 Weight percent of nonvolatiles in product	=(VVn)s
2)	96.67 Volume percent of nonvolatiles in product	=(Vn)s
3.)	8.9 Density, lb nonvolatiles/gal nonvolatiles	=(Dn)s
C. Vola	tiles:	
1.)	2.65 Weight percent of total volatiles in product	=(Wv)s
2.)	7.01 Density, lb volatiles/gal volatiles	=(Dv)s
D Wate	er Content:	
1.)	o Weight percent of water in product	=(VVw)s
2.)	0 Volume percent of water in product	=(VW)s
5/	o volume percent of water in product	-(VW/3
E. Volat	tile Organic Compounds, (VOCs):	
1.)	2.65 Weight percent of organic volatiles in product	=(Wo)s
2.)	3.34 Volume percent of organic volatiles in product	=(Vo)s
3.)	7.01 Density, Ib organic volatiles/gal organic volatiles	=(Do)s
4.)	100 Weight percent of VOCs in total volatiles	=(Wo)v
5.)	100 Volume percent of VOCs in total volatiles	=(Vo)v
F. VOC	Content in Product Expressed in Other Terms:	
1.) a.)	0.23 lb VOC / gal Product	
1.) b.)	28.08 grams VOC / liter Product	
2.) a.)	0.24 lb VOC / gal Product less water & exempt solvent	
2.) b.)	28.53 grams VOC / liter Product less water & exempt solvent	
2.) c.)	2.65 Weight percent of organic volatiles (VOC) in Product less water & exempt solvents.	
3.)	0.24 lb VOC / gal total nonvolatiles	

2/19/2015.

G.	Vol	ati	es
----	-----	-----	----

Ing	redient	CAS number	% by weight Density (lb/gal)	
1.) 2.)	Hazardous Air Pollutants VOCs (HAPs) Olher VOCs (Non-HAPs)		0	
	Severely Treated Light Naphthenic Distillate Technical White Oil	64742-53-6 8042-47-5	1.25 0.61	7.34 6.76
	Tridecyl Alcohol Hydrotreated Middle Distillate	112-70-9 64742-46-7	0.55 0.14	6.84 7.17
	Tall Oil Fatty Acids VOC's present at <0.10% (cumulative)	61790-12-3	0.01 0.09	7.77 7.59 7.71
,	water	7732-18-5	0.05	8.34
	Ammonia (reported as CAS# 7664-41-7; includes CAS# 1336-21-6)	7664-41-7	0	5.99
5.)	Other Non-VOC, Non-HAP Volatiles		0	

NOTE: The term Volatile Organic Compounds (VOC) refers only to volatile organic materials as defined by the US EPA and does not include water, ammonia, acetone or other exempt solvents. Unless otherwise staled, the VOC values reported above are based on materials of construction.

			¥

SAFETY DATA SHEET

Section 1. Identification

Product code

: INT24

GHS product identifier

: INTENSE BLACK \$9800

Trade name

SunLit® Intense

INT 24 PROCESS BLACK

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Colorant, Printing ink related material, Printing ink.

Manufacturer / Distributor

: Sun Chemical Corporation North American Inks 135 West Lake Street Northlake, IL 60164 US: +1 866 786 8140

Emergency telephone

number (with hours of

operation)

: (800) 424-9300 (U.S.) (24 hours)

(703) 527-3887 (International) (24 hours)

Other information : (513) 830-8500

Section 2. Hazards identification

OSHA/HCS status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture Not classified.

GHS label elements

Signal word

: No signal word.

Hazard statements

: No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable Response : Not applicable, Storage : Not applicable Disposal : Not applicable. Hazards not otherwise : None known.

classified

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other Identifiers

4- June- 2015 en - US Page: 1/9

Section 3. Composition/information on ingredients Ingredient name Cas number Carbon Black Neodecanoic Acid, Manganese Salt 2,2 Methylenebis(4-methyl-6-teributyl)phenol Note that the section of the

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are tisted in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyellds. Check for and remove any contact lenses. Get medical attention if irritation

occurs

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical altention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep al rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most Important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

Skin contact : No known significant effects or critical hazards

ingestion : No known significant effects or critical hazards

Indication of Immediate medical attention and special treatment needed, if necessary

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed

The exposed person may need to be kept under medical surveillance for 48 hours

Specific treatments : No specific treatment

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire

medla

Unsuitable extinguishing

: None known

media

Specific hazards arising

from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst

4- June- 2015 en - US Page: 2/9

Section 5. Fire-fighting measures

Hazardous thermal decomposition products : Decomposition products may include the following materials.

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remarks

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene

: Put on appropriate personal protective equipment (see Section 8).

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene

measures.

Including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

DISTENDIA LIPTIC COST L 1 - FASS CONTRACTORISMONTO

Section 7. Handling and storage

Remarks:

: Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. (Soybean oil)

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Carbon Black Neodecanoic Acid, Manganese Salk	ACGIH TLV (United States, 4/2014). TWA: 3 mg/m³ 8 hours: Form: Inhalable (raction OSHA PEL (United States, 2/2013). TWA: 3 5 mg/m³ 8 hours: OSHA PEL 1989 (United States, 3/1989). TWA: 3 5 mg/m³ 8 hours: ACGIH TLV (United States, 4/2014). TWA: 0 1 mg/m³, (as Mn) 8 hours: Form Inhalable fraction ACGIH TLV (United States, 4/2014). Notes: as Mn TWA: 0 02 mg/m³, (as Mn) 8 hours: Form Respirable fraction OSHA PEL (United States, 2/2013). Notes: as Mn CEIL: 5 mg/m³, (as Mn) OSHA PEL: 1989 (United States, 3/1989). Notes: as Mn CEIL: 5 mg/m³, (as Mn)

Appropriate engineering controls

Environmental exposure controls

- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Em ssions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protect on tegislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hyglene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to I quid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

 Chemical-resistant, Impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before

handling this product

Section 8. Exposure controls/personal protection

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, air-purifying or airfed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state

: Liquid. : Black.

Color Odor

: Characteristic.

Odor threshold

: Not applicable.

pН

: Not tested : Not available

Melting point **Bolling point**

: Lowest known value: 288°C (550°F)

Flash point

: Lowest known value; >93.3°C (200°F)

VOC

Evaporation rate

: Highest known value: <1 (Soybean oil) Weighted average, 0.9compared with butyl

acetate

Flammability (solid, gas)

Lower and upper explosive

: Not available.

(flammable) limits

: Not tested

Vapor pressure Vapor density

: Not available : Not tested

Density

: 1.095 g/cm² (9 135 lbs/gal)

Solubility

: Not tested

Partition coefficient: n-

octanol/water

: Not applicable.

: Not applicable

Auto-ignition temperature

Decomposition temperature : Not applicable.

Viscosity

: Not lested

Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: No specific data

incompatible materials

: No specific data,

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

4- June- 2015

en - US

Page: 5/9

INT24

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbon Black 2.2 Methylenebis	LD50 Dermal LD50 Oral LD50 Oral	Rat	>3 g/kg >15400 mg/kg 4880 mg/kg	- -
(4-methyl-6-tertbutyl)phenol				

Conclusion/Summary

: No known significant effects or critical hazards.

Irritation/Corrosion

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards.

Respiratory : No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin : No known significant effects or critical hazards
Respiratory : No known significant effects or critical hazards

<u>Mutagenicity</u>

Conclusion/Summary : No known significant effects or critical hazards

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards

Classification

Product/ingredient name	OSHA	IARC	NTP
Carbon Black	-	28	+

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

Information on the likely

: Not available

routes of exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure

Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data Inhalation : No specific data Skin contact : No specific data

4- June- 2015 en - US Page: 6/9

Section 11. Toxicological information

Ingestion

: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General

: No known significant effects or critical hazards.

Carcinogenicity Mutagenicity

: No known significant effects or critical hazards. : No known significant effects or critical hazards.

Teratogenicity Developmental effects

: No known significant effects or critical hazards : No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

	ATE value
Oral	19329 8 mg/kg

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available

Bicaccumulative potential

	LogPow	BCF	Potential
2,2 Methylenebis (4-methyl-6-tertbutyl)phenol	6.25		hlgh

Mobility in soil

Soli/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

4- June- 2015		The same of the sa
J- 20116- 50 (3	en - US	Page: 7/9
		1 090, 1/0

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spiled material and runoff and contact with soil, waterways, drains and

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number					
UN proper shipping name					
Transport hozard class(es)	Not regulated	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Packing group	•	-	-		•
Environmental hazards	No	No	No	No	No
Additional information			* 3	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

Section 15. Regulatory information

TSCA 8(b) inventory

U.S. Federal regulations

: TSCA 4(a) final test rules Polytetrafluoroethylene Clean Water Act (CWA) 307; C I, Pignient Blue 15 Clean Water Act (CWA) 311, formaldehyde

SARA 313

<u> </u>	Product name	CAS number	%
Supplier notification	Manganese Compounds		1 35

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed

Toxics in Packaging

: In compliance,

(CONEG)

Canada inventory

: All components are listed or exempted

International regulations

1	4 (2045	en - US	Page: 8/9
	4- June- 2015	CII - OO	

Section 15. Regulatory information

International lists

: Australia inventory (AICS) At least one component is not listed.

China inventory (IECSC): Not determined.

Japan Inventory. Not determined Korea Inventory. Not determined.

Malaysia Inventory (EHS Register): Not determined

New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.

Philippines inventory (PICCS): Not determined, Talwan Inventory (CSNN): Not determined.

Europe inventory: Please contact your supplier to get the information

Section 16. Other information

National Fire Protection Association (U.S.A.)

Health S

Flammability

Instability/Reactivity

Special

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright @1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright @2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue/Date of

: 5/18/2015.

revision

Date of previous issue

: 4/28/2015.

Version

: 3

Regulatory information

: Canada: (905) 796-2222

US: (201) 933-4500 PPG: (513) 681-5950

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References

: Not available.

indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

NT24

4- June- 2015

en - US

Page: 9/9



SAFETY DATA SHEET

Section 1. Identification

Product code

: FS2H804636

GHS product identifier

: V-THERM PMS 4635-U B

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Colorant, Printing ink related material, Printing ink.

Manufacturer / Distributor

: Sun Chemical Corporation North American Inks 135 West Lake Street Northlake, IL 60164 US: +1 866 786 8140

Emergency telephone

number (with hours of

: (800) 424-9300 (U.S.) (24 hours) (703) 527-3887 (International) (24 hours)

operation)

Other Information

: (513) 830-8500

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910 1200).

Classification of the substance or mixture

: SKIN SENSITIZATION - Category 1

GHS label elements

Hazard pictograms



Signal word

: Warning

Hazard statements

: May cause an allergic skin reaction.

Precautionary statements

Prevention

: Wear protective gloves Avoid breathing vapor. Contaminated work clothing should not

be allowed out of the workplace.

Response

: IF ON SKIN Wash with plenty of soap and water. Wash contaminated clothing before

reuse. If skin irritation or rash occurs Get medical attention.

Storage

: Not applicable

Disposal

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

: None known

3- June- 2015 en - US *Page: 1/10*

FS2H804636

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

Ingredient name	CAS number	%
Carbon Black	1333-86-4	25-5
Hydroquinone	123-31-9	<1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours

Skin contact : Wash with plenty of soap and water Remove contaminated clothing and shoes Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean

shoes thoroughly before reuse

Ingestion . Wash out mouth with water Remove dentures if any Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person if unconscious place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie-belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact No known significant effects or critical hazards

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed to lowing exposure

Skin contact : May cause an allergic skin reaction

Ingestion : No known significant effects or critical hazards

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire-symptoms may be delayed

The exposed person may need to be kept under medical surveillance for 48 hours

Specific treatments No specific treatment

3- June- 2015 en - US Page: 2/10

Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing ald to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

: Use an extinguishing agent suitable for the surrounding fire.

media

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: In a fire or if heated, a pressure increase will occur and the container may burst

 Decomposition products may include the following materials carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

Special protective equipment for fire-fighters

: Fire-lighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-amergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personner".

Environmental precautions

 Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

3- June- 2015

en - US

Page: 3/10

Section 6. Accidental release measures

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used, without Personal Protective Equipment measures. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, : including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Remarks:

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside (Soybean oil)

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Carbon Black	ACGIH TLV (United States, 4/2014). TWA 3 mg/m ² 8 hours Form Inhalable fraction OSHA PEL (United States, 2/2013). TWA 3 5 mg/m ² 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA 3 5 mg/m ² 8 hours
Hydroquinone	ACGIH TLV (United States, 4/2014). Skin sensitizer. TWA 1 mg/m³ 8 hours OSHA PEL (United States, 2/2013). TWA 2 mg/m³ 8 hours OSHA PEL 1989 (United States, 3/1989). TWA 2 mg/m³ 8 hours

Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants

3- June- 2015 en - US Page: 4/10

Section 8. Exposure controls/personal protection

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hyglene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists. gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, air-purifying or airfed respirator complying with an approved standard if a risk assessment indicates this is necessary

Section 9. Physical and chemical properties

Appearance

Physical state

Odor threshold

: Liquid. : Brown

Color Odor

: Characteristic : Not applicable

рΗ

: Not tested

Melting point

: Not available

Bailing point

: Lowest known value 288°C (550°F) : Lowest known value: >93 3°C (200°F)

Flash point

Voc

Evaporation rate

: Highest known value <1 (Soybean oil) Weighted average 0,9compared with butyl

acetate

Flammability (solld, gas) Lower and upper explosive

: Not available : Not tested

(flammable) limits

Vapor pressure Vapor density

: Not available : Not tested

3- June- 2015

en - US

Page: 5/10

FS2H804636

Section 9. Physical and chemical properties

: 1:044 g/cm3 (8 713 lbs/gal) Density

Solubility Partition coefficient: n: Not tested

octanol/water

: Not applicable.

Auto-ignition temperature

: Not applicable Decomposition temperature : Not applicable : Not tested

Viscosity

Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients

Chemical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur

Conditions to avoid

: No specific data

Incompatible materials

: No specific data

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbon Black	LD50 Dermal		>3 g/kg	•
270.00	LD50 Oral		>15400 mg/kg	-
Hydroquinone	LD50 Oral	Rat	302 mg/kg	•

: No known significant effects or critical hazards Conclusion/Summary

Irritation/Corrosion

Conclusion/Summary

: No known significant effects or critical hazards Skin : No known significant effects or critical hazards Eyes : No known significant effects or critical hazards Respiratory

Sensitization

Conclusion/Summary

Skin : No known significant effects or critical hazards : No known significant effects or critical hazards Respiratory

Mutagenicity

: No known significant effects or critical hazards Conclusion/Summary

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Classification

Product/ingredient name	OSHA	IARC	NTP
Carbon Black	2	2B	•
Hydroguinone	*	3	-

Section 11. Toxicological information

Reproductive toxicity

Conclusion/Summary

Teratogenicity

Conclusion/Summary

: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact

: No known significant effects or critical hazards

Inhalation

: Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

Skin contact

: May cause an allergic skin reaction

Ingestion

: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: No specific data. : No specific data

Inhalation Skin contact

: Adverse symptoms may include the following:

irritation redness

Ingestion

: No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available

effects

Potential delayed effects : Not available

Long term exposure

Potential immediate

: Not available

effects

Potential delayed effects : Not available

Potential chronic health effects

General

: Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity

: No known significant effects or critical hazards

Mutagenicity **Teratogenicity**

Fertility effects

: No known significant effects or critical hazards : No known significant effects or critical hazards

Developmental effects

: No known significant effects or critical hazards : No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates

Not available

3- June- 2015

en - US

Page: 7/10

Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Not available

Persistence and degradability

Not available

Bioaccumulative potential

Product/ingredient name	LogPew	BCF	Potential
Hydroquinone	0 59	=	low

Mobility in soil

Soli/water partition coefficient (Koc)

: Not available

Other adverse effects

: No known significant effects or critical hazards

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or ninsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number					
UN proper shipping name					
Transport hazard class(es)	Not regulated	Not regulated	Not regulated.	Not regulated	Not regulated
Packing group	-	_		•	*
Environmental hazards	No	No	No	No	No
Additional information	-	•		-	

3- June- 2015 en - US Page: 8/10

Section 14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

Section 15. Regulatory information

TSCA 8(b) inventory

U.S. Federal regulations

: TSCA 4(a) final test rules Polytetralluoroethylene

TSCA 8(a) PAIR: naphthalene

Clean Water Act (CWA) 307 benzene, 3,3'-dichlorobenzidine, naphthalene

Clean Water Act (CWA) 311; benzene, naphthalene

SARA 313

	Product name	CAS Ildiliber	%
Supplier notification			5 07

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Toxics in Packaging

(CONEG)

: In compliance.

Canada Inventory

: All components are listed or exempted

International regulations

International lists

: Australia Inventory (AICS). At least one component is not listed. China inventory (IECSC) At least one component is not listed.

Japan inventory: At least one component is not listed

Korea inventory: Not determined

Malaysia Inventory (EHS Register). Not determined

New Zealand Inventory of Chemicals (NZIoC). At least one component is not listed

Philippines inventory (PICCS) At least one component is not listed

Talwan inventory (CSNN): Not determined

Europe Inventory: Please contact your supplier to get the information

Section 16. Other information

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright @1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright @2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hezards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue/Date of

: 6/2/2015

revision

Date of previous issue

: No previous validation

Version

: 0.01

3- June- 2015	en - US	D 040
0-00110-2010	611 - 02	Page: 9/10

FS2H804636

Section 16. Other information

Regulatory information

: Canada (905) 796-2222 US (201) 933-4500

PPG (513) 681-5950

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

iBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships

1973 as modified by the Protocol of 1978 ("Marpol" = marine pollution)

UN = United Nations

References

Not available

Indicates information that has changed from previously issued version.

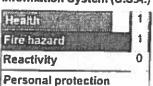
Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

FS2H504636

Hazardous Material Information System (U.S.A.) Health





a member of the DIC group



Material Safety Data Sheet

Product and company identification 1.

Product code

: INT41

Product name

: INT41.INTENSE PROCESS YELLOW.C235

Material uses

: Printing. Colorant.

Manufacturer/ Distributor

: Sun Chemical Corporation

631 Central Avenue Caristadt, NJ 07072

In case of emergency

: (800) 424-9300 (U.S.)

(703) 527-3887 (International)

Regulatory information

Canada: (905) 796-2222

Other information Date of revision

(201) 933-4500

: (513) 830-8500 : 10/27/2014.

Hazards identification

Physical state

: Liquid.

Color

: Yellow.

OSHA/HCS status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Emergency overview

Routes of entry

: No known significant effects or critical hazards.

Dermal contact, Inhalation.

Potential acute health effects

Eves Skin

: May cause mild eye irritation : May cause mild skin irritation.

Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Ingestion

: No known significant effects or critical hazards.

Potential chronic health effects(Long term exposure)

Carcinogenic effects Mutagenic effects

: No known significant effects or critical hazards. : No known significant effects or critical hazards. : No known significant effects or critical hazards.

Teratogenicity / Reproductive toxicity

See toxicological information (Section 11)

3. Composition/information on ingredients

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures

Eye contact

: Zheck for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact

: in case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

5. Fire-fighting measures

Flammability of the product Products of combustion

: In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire

Not suitable

: None known.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Flammability (OSHA criteria)

: 1118

Flash point

: Lowest known value: >93.3°C (200°F) (Closed cup)

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spitted material. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Special remarks on fire hazards

: Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. (Tung oil)

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Engineering measures

: Food general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin

 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory

: A case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties

Physical state

: Liquid

Color

: Yellow.

Odor

: Not available

Boiling/condensation point

: Lowest known value: 288°C (550°F)

Melting/freezing point

: May start to solidify at the following temperature: -12 to -3°C (10.4 to 26.6°F) This is based on data for the following ingredient: Fatty acids, vegetable-oil, Me esters.

Weighted average: -7.5°C (18.5°F)

Flash point

Voc

: Lowest known value: >93.3°C (200°F) (Closed cup)

Marka Separat A

0.05%

Auto-ignition temperature

: Ebwest known value: 342.85°C (649.1°F) (Linseed oil)

Density Solubility

: \$7.056 g/cm3 (8.813 lbs/gal)

Solubility

: Insoluble in the following materials: cold water and hot water.

31- October- 2014

en - US

Page: 3/5

9. Physical and chemical properties

Vapor density

: Highest known value: >1 (Air = 1) (Tung oil). Weighted average: 1.1 (Air = 1)

Evaporation rate

: Flighest known value: <1 (Tung oil) Weighted average: 0.9compared with butyl acetate

10 . Stability and reactivity

Stability and reactivity

Hazardous decomposition

products

Hazardous polymerization

Reactivity - Light Conditions of reactivity

: The product is stable.

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

: Under normal conditions of storage and use, hazardous polymerization will not occur.

: Not applicable.

.

11. Toxicological information

Acute toxicity

Conclusion/Summary

Chronic toxicity

Conclusion/Summary

Carcinogenicity

Conclusion/Summary

Mutagenicity

Conclusion/Summary

<u>Teratogenicity</u>

Conclusion/Summary Reproductive toxicity

Conclusion/Summary

: No known significant effects or critical hazards

: No known significant effects or critical hazards.

: No known significant effects or critical hazards

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

: No known significant effects or critical hazards

12. Ecological information

Environmental effects

Aquatic ecotoxicity

Conclusion/Summary

Biodegradability

Conclusion/Summary

: No known significant effects or critical hazards.

: Not available.

: Not available.

13. Disposal considerations

Waste disposal

: IThe generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal tegislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Refer to protective measures listed in sections 7 and 8. Empty containers or liners may retain some product residues

14. Transport information

Not regulated.

15. Regulatory information

HCS Classification

: Not regulated.

TSCA 8(b) inventory

: Listed

U.S. Federal regulations

: FSCA 4(a) final test rules: Polytetrafluoroethylene

FSCA 8(a) CDR Exempt/Partial exemption: Not determined

ITSCA 8(a) PAIR: 4-Methoxyphenol

TSCA commerce control list:

Not listed

SARA 302/304: Hydroquinone; formaldehyde

SARA 311/312 Hazards identification: Not regulated.

Elean Water Act (CWA) 311; formaldehyde

SARA 313

Product name

CAS number

Concentration

Supplier notification

: Manganese Compounds

27253-32-3

1.35

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

CONEG

: In compliance,

International lists

International lists

: Zanada inventory: All components are listed or exempted.

Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined.

Japan inventory: At least one component is not listed.

Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.

Philippines inventory (PICCS): Not determined.

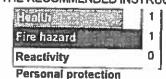
Europe Inventory: Please contact your supplier to get the information.

16. Other information

Label requirements

: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material Information System (U.S.A.)



Version : 2.08

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

VOLATILE COMPONENT INFORMATION

		US EPA Designate
	ct Density	
1)	1.056 g/cm³ (8.813 lbs/gal)	=(Dc)s
B. Nonvo	latile Content:	
1.)	99.93 Weight percent of nonvolatiles in product	=(Wn)s
2.)	99.9 Volume percent of nonvolatiles in product	=(Vn)s
3.)	8.81 Density, Ib nonvolatiles/gal nonvolatiles	=(Dn)s
C. Volati	les:	
1.)	0.07 Weight percent of total volatiles in product	=(Wv)s
2.)	8.05 Density, Ib volatiles/gal volatiles	=(Dv)s
D. Water	Content:	
1.)	0.02 Weight percent of water in product	=(Ww)s
2.)	0.02 Volume percent of water in product	=(Vw)s
E. Volati	e Organic Compounds, (VOCs);	
1.)	0.05 Weight percent of organic volatiles in product	=(Wo)s
2.)	0.06 Volume percent of organic volatiles in product	=(Vo)s
3.)	7.66 Density, Ib organic volatiles/gal organic volatiles	=(Do)s
4.)	71.43 Weight percent of VOCs In total volatiles	=(Wo)v
5.)	75.07 Volume percent of VOCs in total volatiles	=(Vo)v
F. VOC	Content in Product Expressed in Other Terms	
1.) a.)	0 lb VOC / gal Product	
1.) b.)	0.53 grams VOC / liter Product	
2.) a.)	0 lb VOC / gal Product less water & exempt solvent	
2.) b.)	0.53 grams VOC / liter Product less water & exempt solvent	
2,) c.)	0.05 Weight percent of organic volatiles (VOC) in Product less water & exempt solvents.	
3.)	0 lb VOC / gal total nonvolatiles	

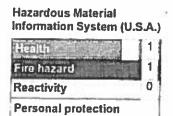
10/31/2014.

G. Volatiles

Ingredient	CAS number	% by weig	ht Density (lb/gal)
Hazardous Air Pollutants VOCs (HAPs) Other VOCs (Non-HAPs)		0	
Linear Alcohol Alkoxylate 3.) water 4.) Ammonia (reported as CAS# 7664-41-7; includes	9003-13-8 7732-18-5 7664-41-7	0.05 0.02	7.71 8.34
CAS# 1336-21-6) 5.) Other Non-VOC, Non-HAP Volatiles	7004-41-7	0	5.99

NOTE: The term Volatile Organic Compounds (VOC) refers only to volatile organic materials as defined by the US EPA and does not include water, ammonia, acetone or other exempl solvents. Unless otherwise stated, the VOC values reported above are based on materials of construction.

y ...





Material Safety Data Sheet

Product and company identification 1.

Product code

: INT24

Product name

: INT24:INTENSE PROCESS BLACK:CD01

Material uses

: Printing, Colorant,

Manufacturer/ Distributor

: Sun Chemical Corporation 631 Central Avenue

Carlstadt, NJ 07072

In case of emergency

: (800) 424-9300 (U.S.) (703) 527-3887 (International)

Canada: (905) 796-2222

Regulatory information

(201) 933-4500

Other information

: (513) 830-8500

Date of revision

: 10/27/2014.

Hazards identification

Physical state

: Liquid.

Color

: Black.

OSHA/HCS status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and

available for employees and other users of this product.

Emergency overview

Routes of entry

: No known significant effects or critical hazards.

Dermal contact, Inhalation,

Potential acute health effects

Eyes Skin

: May cause mild eye irritation. : May cause mild skin irritation.

Inhalation

: Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Ingestion

: No known significant effects or critical hazards.

Potential chronic health effects/Long term exposure)

Carcinogenic effects

: No known significant effects or critical hazards,

Mutagenic effects

: No known significant effects or critical hazards.

Teratogenicity /

: No known significant effects or critical hazards.

Reproductive toxicity

See toxicological information (Section 11)

3. Composition/information on ingredients

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures

Eye contact

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact

: In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

5. Fire-fighting measures

Flammability of the product

: In a fire or if heated, a pressure increase will occur and the container may burst.

Products of combustion

 Decomposition products may include the following materials: carbon dioxide

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known

Special exposure hazards

 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Flammability (OSHA criteria)

Flash point

: 1118

: Lowest known value: >93.3°C (200°F) (Closed cup)

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

 Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Special remarks on fire

hazards

: Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. (Soybean oil)

Exposure controls/personal protection 8

Consult local authorities for acceptable exposure limits.

Engineering measures

: Esood general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

Eves

: Bafety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory

: In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Physical and chemical properties

Physical state

: Liquid.

Color

: Black,

Odar

: Not available.

Boiling/condensation point

: Lowest known value: 288 C (550 F)

Melting/freezing point

: May start to solidify at the following temperature: -12 to -3°C (10.4 to 26.6°F) This is based on data for the following ingredient: Fatty acids, vegetable-oil, Me esters.

Weighted average -7.5 C (18.5 F)

Flash point

: Lowest known value: >93.3°C (200°F) (Closed cup)

VOC Auto-ignition temperature

: Zowest known value: 342.85°C (649.1°F) (Linseed oil).

Density

: 17.092 g/cm3 (9.114 lbs/gal)

Vapor density

: Fighest known value: >1 (Air = 1) (Soybean oil). Weighted average: 1.1 (Air = 1)

31- October- 2014

en - US

Page: 3/5

Physical and chemical properties

Evaporation rate

: Highest known value: <1 (Soybean oil) Weighted average: 0 9compared with butyl acetate

10. Stability and reactivity

Stability and reactivity

: The product is stable.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur.

Reactivity - Light Conditions of reactivity : Not applicable.

11. Toxicological information

Acute toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary

: No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary

: No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary

: No known significant effects or critical hazards

Reproductive toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

12. Ecological information

Environmental effects

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Conclusion/Summary

: Not available.

Biodegradability

Conclusion/Summary

: Not available.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or tandfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Refer to protective measures fisted in sections 7 and 8. Empty containers or liners may retain some product residues.

Transport information

Not regulated.

15 . Regulatory information

HCS Classification

: Not regulated.

TSCA 8(b) Inventory

: Listed

U.S. Federal regulations

: ITSCA 4(a) final test rules: Polytetrafluoroethylene

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA commerce control list:

Not listed

SARA 302/304: Hydroquinone: formaldehyde

SARA 311/312 Hazards Identification: Not regulated. Elean Water Act (CWA) 307: C.I. Pigment Blue 15 Elean Water Act (CWA) 311: formaldehyde

SARA 313

Product name

CAS number

Concentration

Supplier notification

: Manganese Compounds

27253-32-3

1.35

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

CONEG

: In compliance.

International lists

International lists

: Zanada inventory: All components are listed or exempted.

1

0

Australia inventory (AICS): At least one component is not listed.

China inventory (IECSC): Not determined.

Japan inventory: Not determined. Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.

Philippines inventory (PICCS): Not determined

Europe Inventory: Please contact your supplier to get the information.

16. Other information

Label requirements

: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material Information System (U.S.A.)

Health, Fire hazard

Personal protection

Version

: 11.0

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

VOLATILE COMPONENT INFORMATION

·		
		US EPA Designate
A Pro	duct Density:	
1,)	1.092 g/cm³ (9.114 lbs/gal)	=(Dc)s
B. No	nvolatile Content	
1.)	99.98 Weight percent of nonvolatiles in product	=(Wn)s
2.)	99.96 Volume percent of nonvolatiles in product	=(Vn)s
3.)	9.11 Density, lb nonvolatiles/gal nonvolatiles	=(Dn)s
C. Vo	latiles.	
1.)	0.02 Weight percent of total volatiles in product	=(Wv)s
2.)	9.2 Density, ib volatiles/gal volatiles	=(Dv)s
D. Wa	ater Content:	
1.)	0.02 Weight percent of water in product	=(Ww)s
2.)	0.02 Volume percent of water in product	=(Vw)s
E. Vo	latile Organic Compounds, (VOCs)	
1.)	Weight percent of organic volatiles in product	=(Wo)s
2.)	Volume percent of organic volatiles in product	=(Vo)s
3.)	926.67 Density, lb organic volatiles/gal organic volatiles	=(Do)s
4.)	Weight percent of VOCs in total volatiles	=(Wo)v
5.)	0 Volume percent of VOCs in total volatiles	=(Vo)v
F. VO	C Content in Product Expressed in Other Terms:	
1.) a.)	0 lb VOC / gal Product	
1.) b	0 grams VOC / liter Product	
2.) a)	0 lb VOC / gal Product less water & exempl solvent	
2.) b.)	0 grams VOC / liter Product less water & exempt solvent	
2.) c _.)		
3.)	0 lb VOC / gal total nonvolatiles	

10/31/2014.

G. Voidille:	G.	Volatile	S
--------------	----	----------	---

Ingredient	CAS number	% by weig	ht Density (lb/gal)
Hazardous Air Poliutants VOCs (HAPs) Other VOCs (Non-HAPs)		0	
3.) water4.) Ammonia (reported as CAS# 7664-41-7; includes CAS# 1336-21-6)	7732-18-5 7664-41-7	0.02 0	8.34 5.99
5.) Other Non-VOC, Non-HAP Volatiles		0	

NOTE: The term Volatile Organic Compounds (VOC) refers only to volatile organic materials as defined by the US EPA and does not include water, ammonia, acetone or other exempt solvents. Unless otherwise stated, the VOC values reported above are based on materials of construction.

Folding Area Adhesives

MSGS: 11819 Material Safet, Data Sheet MSDS: 11819 - CLYSAR SHRINK FILMS Pevised: 12/02/95 Status: Pending Part Number: NOT GIVEN Formula: NOT GIVEN Keyword: NOT GIVEN Specification: NOT GIVEN Synonyms: NOT GIVEN Stock Items: NOT GIVEN Manufacturer E.I. DUPONT DE NEMOURS & CO., INC., POLYMER PRODUCTS DEPT. Phone: 800-441-7515 1007 MARKET STREET Emergancy: 800-441-3637 WILMINGTON, DE 19898 Supplier E.I. DUPONT DE NEMOURS & CO., INC., POLYMER PRODUCTS DEPT. Phone: 800-441-7515 1007 MARKET STREET Emergency: 800-441-3637 WILMINGTON, DE 19898 Physical/Chemical Characteristics Boiling Point: NG NOT APPLICABLE. Melting Point NA Freezing Point: NG Pour Point NG Softening Point: NG NOT APPLICABLE. Specific Gravity: NA Vapor Pressure: NG Vapor Dansity: NG NEGLIGIBLE. Percent Volatiles: NE Evaporation Rate: NG PH NG Molecular Weight: NG Viscosity NG Solubility in Water ..: NEGLIGIBLE. Odor/Appearance/Other Characteristics: CLEAR TRANSPARENT FILM / NO ODOR. Fire and Explosion Data Closed Cup Flash Pt. .: NG Open Cup Flash Point .: NG Fire Point: NG NO INFORMATION. Auto Ignition: N* Lower Explosion Limit : NG Upper Explosion Limit : MG Shipping Regulations UN/NA Number: NG DOT Hazard Class: NOT REGULATED Shipping Label: NOT GIVEN

NOT REGULATED

Shipping Name:

;

Material Safety Data Sheet

MSDS: 11819 - CLYSAR SHRINK FILMS

MSDS: 11819

Prepared

Preparer's Name & Title: T. E. SCHROER

Preparation Date: 3/15/92

Component(s):

POLYETHYLENE FILM

OSHA Pel: NO mg/m3 NE PPIN NG mg/m3 ACGIH TLV: NE PPM ME PPM STEL: NG mg/m3

Percent of Product: NA CAS No.: NOT GIVEN

Note: CAS NO.: NOT APPLICABLE / OSHA & ACGIH STEL, DUPONT AEL: NE.

Text Section(s)

MATERIAL IDENTIFICATION

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

PRODUCT NAME: Clysar(R) Shrink Films

Types LLP, XLP, HP

<

CHEMICAL NAME: Polyethylene film

CAS REGISTRY NUMBER: NA

TSCA INVENTORY STATUS: All reportable ingredients are listed in the TSCA

Chemical Substance Inventory.

MANUFACTURER:

E.I. DU PONT DE NEMOURS & CO POLYMER PRODUCTS DEFIARTMENT 1007 MARKET STREET

WILMINGTON, DE 19898

TELEPHONE NUMBERS:

MEDICAL EMERGENCY: 800-441-3637 PRODUCT INFORMATION: 800-441-7515

TRANSPORTATION EMERGENCY: 800-441-9300

HAZARDOUS COMPONENTS

SEE COMPONENT PAGE(S) FOR ADDITIONAL INFORMATION.

Material Safety Dath Sheet

MSDS: 11819 - CLYSAR SHRINK FILMS

HAZARDOUS COMPONENTS

MATERIAL: No components are hazardous as defined by 29 CFR 1910.1200

MSDS: 11817

SUBSTANCES PRESENT AT A CONCENTRATION OF $\emptyset.1\%$ OR MORE CLASSIFIED AS A CARCINOGEN BY IARC, NTP OR GSHA: None are known.

PHYSICAL/CHEMICAL DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

VOLATILE CONTENT %: Negligible

FIRE AND EXPLOSION HAZARD DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

UNUSUAL FIRE, EXPLOSION HAZARDS: The solid polymer can be combusted only with difficulty.

HAZARDOUS COMBUSTION PRODUCTS: Complete combustion gives carbon dioxide and water. Incomplete combustion gives, in addition, carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes and alcohol.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Use self-contained breathing apparatus to avoid exposure to the products of combustion.

EXTINGUISHING MEDIA: Water, carbon dioxide, foam, dry chemical.

HAZARDOUS REACTIVITY

STABILITY AT ROOM TEMPERATURE: Stable.

POLYMERIZATION: Will not occur.

MATERIALS TO AVOID: None are known.

CONDITIONS TO AVOID: Temperatures above 325 Deg. C (617 deg F).

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes and alcohols.

Material Safety Data Sheet MSDS: 11319

MSDS: 11819 - CLYSAR SHRINK FILMS

HEALTH HAZARD DATA

Before using Clysar(R) Shrink Films, read the bulletin "Safety in Handling and Use".

ACUTE OR IMMEDIATE EFFECTS:

ROUTES OF ENTRY AND SYMPTOMS:

INGESTION: Ingestion is not a probable route of exposure. Oral toxicity tests have been run on polyethylene which is the major constituent of Clysar(R) Shrink films listed in this MSDS. The tests showed that a polyethylene has low toxicity.

SKIN: Animal tests with polyathylane show no evidence for skin irritation or sensitization. No dermatitis problem is expected from routine handling of polymer. Molten polymer contacting the skin will cause thermal burns.

EYE: Mechanical irritation only.

INHALATION: Clysar(R) shrink films are not respirable at room temperature. Du Pont has run analytical tests on the fumes that are evolved during normal hot wire cutting and shrinking operations. The predominant gases produced are low molecular weight hydrocarbons, carbon dioxide, carbon monoxide, and water. The amount of each gas evolved is low. Du Pont does not believe that the concentrations of any of these gases present a hazardous work environment. Nevertheless, it is our recommendation that ventilation be used for the comfort of the employees. In exceptional circumstances, in gross mis-operation of equipment or while the product is being disposed of, Clysar Shrink Film may be exposed to temperatures above 325 deg C (617 deg F). In this case fumes irritating the eyes, nose and throat may be produced. Exposure to these fumes may result in redness, tearing, and itching of the eyes and soreness in the nose and throat together with coughing.

EMERGENCY FIRST AID:

If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

Wash skin with soap and planty of water.

Flush eyes with water. Consult a physician if symptoms persist.

Material Safet, Data Theot
MSDS: 11819 - CLYSAR SHRING FILMS
Plant #: 404 Incentoo gele-suspensessessessesses essessessesses Page 5

If moiten polymer contects slin, eccl (ap.11 bith cold mit). Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn.

CHRONIC EFFECTS: None are known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None are known.

PROTECTION INFORMATION

EYE: Safety glasses are recommended as good industrial practice.

SKIN: Gloves and long sleeve shirt recommended when handling hot polymer.

VENTILATION: Area ventilation is usually sufficient. If desired, local ventilation over the hot wire cutter and shrink tunnel can also be used.

RESPIRATOR: Not required if area ventilation is adequate.

DISPOSAL

SPILL, LEAK OR RELEASE: Pick up spilled film to avoid slipping hazard.

WASTE DISPOSAL: Landfill or incinerate in accordance with federal, state, and local regulations.

AQUATIC TOXICITY: No information available. Toxicity is expected to be low based on the polymer's negligible mater solubility.

STORAGE CONDITIONS: Store in a cool, dry place away from flammable materials. Keep containers closed to prevent contamination.

SECTION 313 SUPPLIER NOTIFICATION

This product contains no known toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

STATE RIGHT TO KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below.

Material Safety Data Sheat

MSDS: 11819 - CLYSAR SHRINK FILMS

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE: None known.

SUBSTANCES ON THE PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 0.01% OR MORE: None known.

MSDS: 11819

NONHAZARDOUS INGREDIENTS PRESENT AT A CONCENTRATION OF 3% OR MORE REQUIRED TO BE LISTED BY PENNSYLVANIA: Since this product contains no hazardous substances as defined by the Pennsylvania R-T-K Regulations, a MSDS is not required by law.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARN: None known.

SPECIAL NOTES

The information in this Material Safety Data Sheet relates only to the specific material(s) designated herein and does not relate to use in combination with any other material or in any process.

NA = Not applicable NE = Not established

AEL = Du Pont Company's Acceptable Exposure Limit

 \langle = New or revised information in this section when " \langle " is in right margin End of MSDS

Material Safety Data Meet

HMIS (U S.A.)	HCS Risk Phrases	Protective Clathing
Reactivity 0	Not controlled under the HCS (United States).	

Common Name/ Frade Name	Craigstik 3	991Pl			Code	3991PI:MS
Supplier	Craig Adhesiv 80 Wheeler Po Newark, NJ 9 (973) 344-148	7105	Co.		In case of Interpence	Craig: (973) 344-1483 Chemtrec: (800) 424-9300
Synonym	Repositionable A	thesive				
Chemical Name	Water Based Adh	esi			· · · · · · · · · · · · · · · · · · ·	
Chemical Family	Synthetic Polyme	Disporsion				
Chemical Formula	Proprietary					
Vanufacturer	Craig Adhesives & 80 Wheeler Point Newark, india. (973) 344-1483	તd.		Material Uses		specified industries: See Technica and Application Notes.
Section II. Haz	ardous Ingredie	rıts				
Varme		CAS#	% by Weig	ht	ILV/PFI.	LCi/I Dis
No hazardous ingred	ent.				462	

Sectio III. Hazards Identification			
Pote anal Acute Realth Effects	Non-sensitizer for skin. Non-permeator by skin. Non-hazardous in case of ingestion.		
Potential Chronic Health Effects	Non-corrosive for skin. Non-imitant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes. Non-hazardous in case of ingestion. Non-hazardous in case of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not toxic. The substance is not toxic to blood, kidneys, lungs, the nervous system, liver		

Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used.
Skin Contact	NO known EFFECT on skin contact, rinse with water for a few minutes.
Hazardous Skin Cuntact	No additional information.
Inhalation	Allow the victim to rest in a well-ventifated area. Seek immediate medical attention.

Continued on Next Page

Craigstlk 3991Pl	Page Number: 2
Hazardous fubiliation	No additional information.
lagestion	DO NOT induce vomiting. Examine the fips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, ite, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous Ingestion	No additional information.
Section V. Fire and E	explosion Data
Auto-Ignition Temperature	Not applicable
Flush Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.
Section VI. Accidenta	l Release Measures
Small Spill	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
Section VII. Handling	and Storage
Precautions	Do not breathe gas, fumes, vapor or spray. Keep away from incompatibles such as acids, alkalis.
Storage	No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.
Section VIII. Exposur	e Controls/Personal Protection
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Personal Protection	Safety glasses. Lab coat.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

Craigstik 3991Pl			Page Number: 3
Section IX. Physical	and Chemical Properties		
Physical state and appearance	Liquid.	Odor	Ammoniacal.
pH(1% suln water)	Neutral	Color	White.
Boiling Point	The lowest known value is 100°C (212°F) (9999)	Weighte	d average: 109.26°C (228.7°F)
Melting Point	May start to solidify at 0°C (32°F) based on data	for: 9999.	
Specific Gravity	Weighted average: 1 (Water = 1)		
Vapur Pressure	The highest known value is 17.535 mm of Hg 20°C)	(@ 20°C)	(9999). Weighted average: 15.7 mm of Hg (@
Vapor Density	The highest known value is 2 62 (Air = 1) (001)	Weighter	d average: 0.83 (Air = 1)
Yoladlity	Not available.	5721111	
Odor Threshold	Not available.		
Evaporation rate	Not available		
Viscosity	1300 +/- 300 CPS (Brookfield, 20 rpm, #4 spindle	, 77°F)	
Water/Oil Dist. Coeff.	Not available.		
Solubility	Easily soluble in cold water.		

Section X. Stability	and Reactivity Data
Stability	The product is stable.
Instability Temperature	Not available
Conditions of Instability	No additional remark.
Incompatibility with various substances	Reactive with acids, alkalis
Corresivity	No specific information is available in our database regarding the corrosivity of this product in presence ovarious materials
Special Remarks on Reactivity	No additional remark
Special Remarks on Corrosivity	No additional remark.

Routes of Entry	None
Toxicity to Animals	LD50; Not available LC50: Not available
Chronic Effects on Humans	DEVELOPMENTAL TOXICITY. Not toxic. The substance is not toxic to blood, kidneys, lungs, the nervous system, liver,
Other Toxic Effects on Humans	Non-sensitizer for skin. Non-permeator by skin. Non-hazardous in case of ingestion.
Special Remarks on Toxicity to Animals	No additional remark
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on other Toxic Effects on Humans	No additional remark.

Craigstlk 3991PI Page Number: 4 Section XII. Ecological Information					
BOD5 and COD	Not available.				
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.				
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.				
Special Remarks on the Products of Blodegradation	No additional remark.				

Section XIII. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section XIV. Transport Information					
DOT Classification	Not a DOT controlled material (United States).				
Propper Shipping Name	Not applicable.				
DOT Identification Number	Not app:lcable.				
Packing Group	Not applicable.				
Hazardous Sybstances Reportable Quantity	Not available.				
Special Provisions for Transport	Not applicable.				
DOT (Pictureums)					

DOT (Pictograms)



Section XV. Other Regulatory Information and Pictograms

Federal and State Regulations

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: No products were found.

CERCLA hazardous substances: Ammonla;

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Massachusetts RTK: Ammonium hydroxide Pennsylvania RTK: Ammonium hydroxide

Florida: No products were found. Minnesota: No products were found. New Jersey: Ammonium hydroxide

Other Classifications	WHMIS (Canada)	WHMIS CLASS D-2A: Material causing other toxic effects (VERY TOXIC)
	DSCL (EEC)	Not controlled under DSCL (Europe).

Continued on Next Page

Craigstik 3991Pi				Page Number: 5
National Fire Protection Association (U.S.A.)	lfealth	100	Fire Hazard Reactivity Specific hazard	
WHMIS (Canada) (Pictograms)	(T)	-		
DSCL (Europe) (Pictograms)		Marie II.		
TDG (Canada) (Pictograms)				
ADR (Europe) (Pictograms)				
Section XVI. Other Info	ormation	·····		

Verified by Craig Adhesives and Coatings Company.

Validated by Craig Adhesives and Coatings Company on 1/31/2003.

<0.1% are not specifically identified.

Printed 1/12/2004.

Information on Hazardous Ingredients is listed in Section II. Toxic chemicals at <1.0% and OSHA carcinogens at

Notice to Render

Other Special

Considerations

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

intertape polymer corp.

Exifilmplus® - Material Safety Data Sheet SEE BAPORTANT NOTICE ON BOTTOM OF PAGE 1

Emergency Phone: (941) 727-5788

L - Product	Identificat	lon			Craw, In.		MIS Rating
Manufacturer's Name and Address Intertape Polymer Group, Packaging Products 3647 Cortez Road W. Suite 102, FL 34210							ability ity
^{ldentity} Exiftimplu	s [©] (Shrink	Film)				Persona Protect	· —
II Hazan	dous Ingre	lieutu	engament say, Sacrabah	, 45.45.45.45.45.55			
THE RESIDENCE OF STREET	the state of the state of		dentity/Common Name(s) C.A.	s osha pel	ACCIH TLV	Other Lis	nits % (optional)
			ponents present. This pro	oduct is principally	composed	of polyeth	ylene.
D.O.T. Proper S D.O.T. Hazard C D.O.T. Identifica	lass:			Not Applicable	le.		
III – Pirysi	cal Data	- 5619			mpst.		N = 1 = T = 7 am tot 11 appertue to Aurorate 11
Boiling Point (de	The second second	1	Not Applicable.	Specific Gravity (H ₂ O = 1):		Approximately 0.9.	
Vapor Pressure ((ean Hg.):		Vegligible.	Percent Volatile by Volume (%):		Not Applicable.	
Vapor Density (Air=t)		Tot Applicable. Evaporation Rate (Butyl Accaste = 1):		Acciste = 1):	Not Applicable.	
Solobility in Wa	ler:	1	Vegligible.	Appearance and Odor:		Clear, Odorless Film.	
				arrage (2000 see 6000 and 600	None To Windows	4 1 1 2 2 2 2 2 2	
IV - Fire s	and Explosi	on Haz	ard Data			50 1000	
Flash Point (Mct	hod Used):	Not A	plicable.	Flammable Limits N/A	_	Lower Upper N/A N/A	
		Water	Spray, Water Fog, CO2,		Flammable Liquid N/A		
Extinguish Media	Ľ		y Chemicals.	WARNING	Combustible Liquid N/A		
Special Fire Figi	ning Procedures:	Wear s	elf-contained breathing tus.	Unusual Fire and Explosion Hazards:	May Auto Ignite at Temperatures Above 590°F (310°C).		
V - Reacti	vity Data					Prints de la la	
	Unstable		Conditions to Avoid				
Stability:	Stable St		7				
incompatibility (materials to avoid	n No	ne are known				
Hazardous Dece	mposition Produc	ıs: İncl	ude but not limited to car	bon dioxide, carbor	nonoxide	and hydr	ocarbon oxidatio
	L J May Octor						
Hazardous	May Occu	г	Conditions to Avoid				

VI – Health Haz	7	9.4							
Primary Routes of Entry	☐ Inhalation ☐ Skin Absorption		☐ Ingestion	Carcinogen Listed in	□ NIP	III OSHA			
Planey Aveta of Emy			2 Not Hazardous	Carpogen Listed in	IANO Monograph	☑ Not Listed			
Health Hazards:	Acute	Non	e Known.						
	Chronic	Charic None Known							
Effects of Overesposure:	None kn	משכ.							
Pre-existing Conditions Aggravated by Exposure:	None kno	None known.							
Emergency and First Aid Procedure:	Seek medical assistance for further treatment, observation and support if necessary.								
Eyes contact:		Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms persist.							
Skin contact:	If burned	If burned by contact with molten material, cool as quickly as possible. Do not peel material from skin. Get medical attention for a thermal burn.							
febalation;	If symptomatic, move to fresh air. Get medical attention if symptoms persist.								
tigration	Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary.								

VII - Special	Protection In	Hormstion			
Respiratory Protection	on (Specific Type):	No special requirement	S		
Protective Gloves: No Special Requirements.			Eye Protection:	No Special	Requirements.
Verbilation To Re Heed		☑ Local Edmist	☐ Mechanical (General) ☐ Special		☐ Special
		Other (Specify)			
Other protective Clothing and Equipment: No special requireme		No special requirements			
Hygiene Work Practices: Normal good hygi-		Normal good hygiene.	-		

VIII Spill or Leak Proc	edures
Steps to be Taken in Case Material is Released or Spilled:	Promptly clean up film trim and waste using normal good housekeeping practices.
Waste Disposal Method:	By any method as a non-hazardous material in accordance with Federal, State, and Local requirements.

IX - Special Precau	rtioss
Precautions to be Tuken in Handling and Storing:	Protect from excessive heat.
Other Precautions:	Some irritating fumes may be evolved during heat fusion.
Date: May 28, 2002	

*Notice: Intertape Polymer Group believes that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

NO WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE IS MADE

Habasil Belling Inc. 805 Satellite Blvd. P.O. Box 80507 USA-Suwanee, GA 30024



SAFETY DATA SHEET

Fixol-E

1. Identification of the substance / preparation and of the company / undertaking

Use of the

Substance/Preparation

Solvent adhesive for polyamide 6 for flat belts, conveyor- and

processing-belts, machine tapes

Supplier

Habasit AG Römerstrasse 1

CH-4153 Reinach BL 1 Tel. +41 61 715 15 15 Fax. +41 61 715 15 55 www.habasil.com

24 Hour Emergency Assistance

Infotrac, Inc.: (800) 535-5053

Habasit Belting Inc.: 1-678-288-3600

General SDS Assistance

Habasit Belting Inc.: Tel. 1-678-288-3600; Fax 1-678-288-3651

Toli-free Tel. No.: 800-458-6431

Revision Date

22.06.2011

Replaces version of

03.02.2010

2. Composition / information on ingredients

Chemical characterization

Solution of Resorcin and Polyamide 6 in Ethanol

Components		Symbol(s)	R-phrase(s)	CAS	EINECS
resorcinol; 1,3-benzenediol	50% - 75%	Xn,N	R-22-36/38-43-	108-46-3	203-585-2
			50		1
Ethanol; Ethyl alcohol	25% - 50%	F	R-11	64-17-5	200-578-6

3. Hazards identification





Flammable. Harmful if swallowed. Very toxic to aquatic organisms. Irritating to eyes and skin.

HMIS RATING:

HEALTH: 2" / FLAMMABILITY: 3 / REACTIVITY: 1

*additional chronic hazards present.

2/7

Habasit Belting Inc. 805 Satellite Blvd. P.O. Box 80507 USA-Suwanee, GA 30024



NFPA RATING:

HEALTH: 2 / FLAMMABILITY: 3 / REACTIVITY: 1

4. First aid measures

Inhalation Move to fresh air. Consult a physician for severe cases.

Skin contact Wash off with warm water and soap. If skin irritation persists, call a

physician.

Eye contact In the case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

Ingestion Induce vamiling if person is conscious. Rinse mouth, ingest

activated charcoal. Consult a physician for severe cases.

5. Fire-fighting measures

Extinguishing media which must not be used for safety reasons

None.

Specific hazards Closed containers may explode due to pressure build-up when

subjected to excessive heat or intense fire. During a fire, smoke may contain the original material in addition to unidentified toxic

and/or irritating compounds.

Special protective equipment for

firefighters

Standard procedure for chemical fires. In the event of fire, wear self

contained breathing apparatus.

6. Accidental release measures

Personal precautions Remove all sources of ignition. Ensure adequate ventilation. Keep

people away from and upwind of spill/leak.

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust).

7. Handling and storage

Fixol-E

3/7

Habasit Belting Inc. 805 Satellite Blvd. P.O. Box 80507 USA-Suwanee, GA 30024



Handling

Use only in well-ventilated areas, Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Vapours are heavier than air and may spread along floors. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wash hands and exposed skin before eating, drinking or smoking and after work.

Storage

Keep tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure limit(s)

In case of good ventilation no personal respiratory protective

equipment required.

Resorcinol:

EXPOSURE LIMITS, RTECS

Country Source Type Value USA ACGIH STEL 20 PPM USA ACGIH TWA 10 PPM

Remarks: check ACGIH TLV

USA NIOSH TWA 10 PPM

STEL 20 PPM

Engineering measures to reduce

exposure

Ensure adequate ventilation, especially in confined areas.

Personal protection equipment

Respiratory protection

In case of good ventilation no personal respiratory protective

equipment required.

Hand protection

Gloves made of Chloroprene. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the

standard EN 374 derived from it.

Eye protection

Safety glasses with side-shields conforming to EN 166.

Skin and body protection

Long sleeved clothing.

9. Physical and chemical properties

Form

Liquid.

Colour

Yellowish.

Odour

Alcoholic.

4/7

Habasit Belting Inc. 805 Satellite Blvd. P.O. Box 80507 USA-Suwanee, GA 30024



Physical and chemical properties

pH: not applicable (% solution)

Flash point: 14 °C. Water solubility: soluble

Fat solubility %.
Boiling point/range 80 °C.
Density 1.08 g/ml.
Viscosity 560 mPa.s.

Explosion limits (lower) 3 %. Explosion limits (upper) 36 %.

10. Stability and reactivity

Stability

Stable up to approximately 78 °C. Above 78 °C, hazardous fumes

may be released.

Materials to avoid

None.

Hazardous decomposition

products

None under normal use.

11. Toxicological information

Acute toxicity

Resorcin

LD50/dermal/rabbit = 3360 mg/kg. LD50/oral/rat = 301 mg/kg. LDLO/oral/human = 29 mg/kg.

Ethanol

LD50/dermal/rabbit = > 20000 mg/kg.

LD50/oral/rat = 6200 mg/kg.

Local effects

Toxic by inhalation, in contact with skin and if swallowed. Inhalation of high vapour concentrations may cause symptoms like headache,

dizziness, tiredness, nausea and vomiting.

Long term toxicity

Repeated absorption may cause disorder of central nervous

system, liver, kidneys and blood.

12. Ecological information

Persistence / degradability

No data is available on the product itself.

Bioaccumulation

Does not bioaccumulate.

Fixol-E

5/7

Habasit Belting Inc. 805 Satellite Blvd. P.O. Box 80507 USA-Suwanee, GA 30024



13. Disposal considerations

Waste from residues / unused

products

Should not be released into the environment. Can be incinerated, when in compliance with local regulations. European Waste

catalogue code (EWC-code): 08 04 09.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID

Proper shipping name:

UN No 1993 Flammable I quid, n.o.s. (resorcinol; Ethanol), 3, III

(D/E).

ADR/RID Labels 3. Classification code F1.

Risk No. 30.

Limited quantity LQ 7: max. 5 litres per inner packing, max. 30 litres

in total

IMO

Proper shipping name:

UN No 1993 Flammable figuid, n.o.s. (resorcinol; Ethanol), 3, III,

Flp. 32°C c.c. Labels 3.

Limited quantity LQ 7: max. 5 litres per inner packing, max. 30 litres

in total

EmS. F.E, S.E.

ICAO

15. Regulatory information

Symbol(s)

Xn - Harmful,

N - Dangerous for the environment.

R-phrase(s)

R10: Flammable.

R22: Harmful if swallowed.

R43: May cause sensitization by skin contact R50: Very toxic to aquatic organisms. R36/38: Irritating to eyes and skin.

S-phrase(s)

\$16: Keep away from sources of ignition - No smoking.

S24: Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

S45: In case of accident or if you feet unwell, seek medical advice

immediately (show the label where possible).

S56: Dispose of this material and its container to hazardous or

special waste collection point.

6/7

Habasit Belting Inc. 805 Satellite Blvd. P.O. Box 80507 USA-Suwanee, GA 30024



Regulatory Information

The product is classified and labelled in accordance with [national

equivalent of EC-Directive 1999/45).

VOC (CH) = 36%

USA / Canada

Ethanol: HMIS RATING HEALTH: 2* FLAMMABILITY: 3 REACTIVITY: 1

NFPA RATING HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 1 *additional chronic hazards present.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: Yes

NOTES: This product is subject to SARA section 313 reporting

requirements.

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No NDSL: No

Resorcinol: HMIS RATING HEALTH: 2* FLAMMABILITY: 0 REACTIVITY: 0

NFPA RATING
HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0
*additional chronic hazards present.

UNITED STATES REGULATORY INFORMATION SARA LISTED: No TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No Fixol-E

7/7

Habasit Belting Inc. 805 Satellite Blvd. P.O. Box 80507 USA-Suwanee, GA 30024



16. Other information

Recommended use Restricted to professional users. Attention - Avoid exposure - obtain

special instructions before use.

End use The information provided in this Safety Data Sheet is correct to the

best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal

and release. It is not to be considered a warranty or quality

specification.

Text of R phrases mentioned in

Section 2

R11: Highly flammable.

R22: Harmful if swallowed.

R43: May cause sensitization by skin contact

R50: Very toxic to aquatic organisms. R36/38: Irritating to eyes and skin.

Changes to former version

Gray shadowed titles mark changed data

Deletions

Blacked shadowed titles mark deleted data

Adhesiio de d'uplades

MATERIAL SAFETY DATA SHEET

REVISION DATE: 09-20-2005

SUPERSEDES:

09-14-2004

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION H.B. Fuller Company 1200 Willow Lake Boulevard Vadnais Heights, MN 55110

Phone: 651-236-5900

Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT INFORMATION

PRODUCT IDENTIFIER.

802989PM

PRODUCT NUMBER

HL2198X

PRODUCT DESCRIPTION:

Hot melt adhesive

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for any additional exposure limit guidelines.

Chemical Name	CAS#	PERCENT	OSHA PEL	
Mineral oil, white	8042-47-5	30 - 50	TWA Mist 5 MG/513	

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Contact with molten product will cause thermal burns.

Vapors fumes may be irritating at application temperatures.

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 1 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: No irritation hazard in normal industrial use. Exposure to hot material may cause thermal burns.

SKIN: Skin contact at room temperature is not irritating. Contact with product at elevated temperatures can result in thermal burns.

INHALATION: Can cause minor respiratory irritation. Vapors may have an offensive odor that may cause headaches, nausea, and vomiting.

INGESTION: Ingestion is not an anticipated route of exposure. No hazard in normal industrial use.

MATERIAL SAFETY DATA SHEET

LONG-TERM (CHRONIC) HEALTH EFFECTS

TARGET ORGAN(S): No organs known to be damaged from exposure to this product.

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: No medical conditions affected by exposure.

SECTION 4: FIRST AID MEASURES

IF IN EYES: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard. For hot product, immediately flush eyes with plenty of water for at least 20 minutes. Get immediate medical attention.

IF ON SKIN: Wash with soap and water. For hot material, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Cover with clean gauze and do not attempt to remove the material yourself. Get prompt medical attention. Medical personnel: coat with mineral oil to soften material for removal.

IF VAPORS INHALED: Remove to fresh air. Call a physician if symptoms persist. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

IF SWALLOWED: Do not induce vomiting, Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: > 204 C (400 F) Cleveland Closed Cup

AUTOIGNITION TEMPERATURE:

LOWER EXPLOSIVE LIMIT (% in air):

Not established
Not established
Not established

EXTINGUISHING MEDIA: A solid stream of water may scatter molten product. Use water

spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material will burn in a fire

SPECIAL FIRE FIGHTING INSTRUCTIONS:

Persons exposed to products of combustion should wear self-

contained breathing apparatus and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: No adverse health effects expected from the clean-up of spitted material.

Follow personal protective equipment recommendations found in Section 8

of this MSDS.

CLEAN-UP: Allow molten material to solidify before disposal.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7: HANDLING AND STORAGE

Handling: No special handling instructions due to toxicity. Avoid breathing vapors/furnes of heated

product. Prevent contact with molten product.

Storage: Store in a cool, dry place.

Consult the Technical Data Sheet for specific storage instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:

Wear safety glasses when handling this product.

SKIN PROTECTION:

Not normally required. Wear chemically resistant gloves to prevent

prolonged or repeated contact. When material is heated, wear thermally insulating gloves to protect against thermal burns.

GLOVES:

Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION: Respiratory protection may be required to avoid overexposure when

handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134).

VENTILATION:

Use local exhaust ventilation or other engineering controls to minimize exposures. At the application temperature, use of local

exhaust over the premelting reservoir is encouraged.

EXPOSURE LIMITS:

Chemical Name	ACGIH EXPOSURE LIMITS	AIHA WEEL	
Mineral cil, white	TWA Mist 5 MG/M3 STEL Mist 10 MG/M3	Not established	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Solid

COLOR:

Amber Light

ODOR:

Neutral Not established

ODOR THRESHOLD: SPECIFIC GRAVITY:

0.98

SOLIDS (% by weight):

Not applicable

рН:

Not established

BOILING POINT (deg. C):

Not established Not established

FREEZING/MELTING POINT (deg. C): VAPOR PRESSURE (mm Hg).

Not established Not established

VAPOR DENSITY: EVAPORATION RATE:

Not established

OCTANOL/WATER COEFFICIENT:

Not established

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

CHEMICAL INCOMPATIBILITY:

Not established Will not occur.

HAZARDOUS POLYMERIZATION:

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

CHEMICAL NAME	1 LD50 LC50		
I UILGOOLLAL MADE	1 L.D3U-L.C.3U		

25		

Mineral oil, white	Not established
	6 CARANT

TOXICOLOGY SUMMARY:

No additional health information available.

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available

SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of in an approved landfill. Consult your state, local or provincial authorities and your local waste vendor for more restrictive requirements.

SECTION 14: TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

DOT:

NOT REGULATED NOT REGULATED

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS

U.S. EPA TSCA:

This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL

This product is in compliance with the Canadian Domestic Substance List

requirements.

EUROPEAN EINECS

This product is in compliance with the European Inventory of Notified and

Existing Chemical Substances requirements.

AUSTRALIA AICS:

This product is in compliance with the Australian Inventory of Chemical

Substances requirements.

JAPAN ENCS:

This product is in compliance with the Japanese Existing and New Chemical

Substances requirements.

KOREAN TCCL:

This product is in compliance with the Korean Existing Chemicals List

requirements.

PHILIPPINES:

This product is in compliance with the Philippine Inventory of Chemicals and

Chemical Substances requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at 651-236-5858 (USA) or 450-655-1306 x227 (Canada) to request an export review.

FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

		1 %	
Chemical Name	CAS#		

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

STATE REPORTING

This MSDS is not prepared for distribution in California.

SECTION 16: ADDITIONAL INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupation il Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910-1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Becar se some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and recause the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.

Thank you for requesting an MSDS for this product.

We have reviewed our products, conducted a hazard determination, and prepared MSDSs in compliance with the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) Our MSDSs also provide information on any toxic chemical subject to the reporting requirements of section 313 of Title till of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

If this product, or any component of it, is considered to be hazardous or carcinogenic under the OSHA Hazard Communication Standard or the WHMIS regulations, information is provided in Section 2: COMPOSITION/INFORMATION ON INGREDIENTS or in Section 3: HAZARDS IDENTIFICATION.

MAJOR USE

and packet Self-seal envelope adhesive. Also used for attachment of plastic cards to carriers.

CHARACTERISTICS

L516/4 has excellent "self seal" properties. It machines well and is fairly easily removed from machinery When used as a when dry. attachment plastic/credit card adhesive it should be evaluated on individual paper/card stock to ensure separation/'hold down' properties are acceptable.

WARNING

This adhesive is NOT compatible with other adhesives and care should be taken to wash out equipment thoroughly before introducing this adhesive to the system or other adhesive after using the L516/4. Do not pour wash-up liquid down the drains but dispose of it in a suitable sealed container.

Application equipment should be stainless steel. Do not use copper or copper alloys as they will discolour and degrade the adhesive.

TYPICAL VISCOSITY

15 poise at 20°C, measured on an R.V. Instrument, Spindle No.3, 20rpm

Нα

9-10

SHELF LIFE

Approximately four months when stored in sealed containers at normal ambient temperature. Do not allow to freeze. Always stir before use.

HEALTH & SAFETY

L516/4 is based on natural rubber latex and is stabilised with ammonia. Fumes should not be inhaled.

DO NOT ALLOW smoking in working areas.

If the adhesive comes into contact with the skin then wash with warm soapv water. Do not use hot water. If the adhesive comes into contact with the eyes, or if swallowed, seek medical advice immediately.

Further information including a full material safety data sheet is available from our Technical Department at the address given below.

Date Issued: 18.07.2007

Information given in this data sheet is based upon the work of ourschop and or others. It is believed to be retable but user should ensure product mosts were his requirements before communical uso.

The Buyer must ensure that the product papers and usage to which the adhesives are subjected remain constant and in accordance with advice given by the Seller Variation in the materials used, time scale and storage and methods of usage of the goods and all operating processes may affect the performance of the goods. Buyers should ensure that any variation of whatscever kind should be preceded by all necessary testing and evaluation to ensure that the activities still meets the needs of the customer.

It is the responsibility of the Buyer to ensure that the performance of the adhetives is continuously evaluated to ensure optimism contemporal forespecials constitute and that end use testing of the finished product unitsing the goods is constantly maintained.







MATERIAL SAFETY DATA SHEET ON SEALOCK ADHESIVE No: L516/4

Sealock UK Safety Data Sheet according to Regulation (EC) No. 1907/2006

DATE ISSUED: 13 February 2008

1) IDENTIFICATION AND COMPANY:

Natural rubber latex based adhesive manufactured by Sealock Ltd, Scott Close, Walworth Industrial Estate, ANDOVER, Hampshire, SP10 5NU, UK.

Tel No:

+44 (0) 1264 358185

Emergency Tel No +44 (0) 1264 358185

Fax No:

+44 (0) 1264 332203

Email:

sales@sealock.co.uk

2) HAZARDOUS IDENTIFICATION:

This adhesive is natural rubber latex based but contains ammonia. The following health hazards have been identified:

2.1 Inhalation:

Do not inhale. Use only in well ventilated area. DO NOT allow

smoking in working area.

2.2 Ingestion:

This adhesive should not be ingested. If ingestion occurs wash

out with copious quantities of cold water and seek medical advice.

2.3 Skin contact:

Barrier creams and protective clothing should be worn.

2.4 Eye contact:

Goggles to BS2092 strongly recommended

3) CHEMICAL CONSTITUENTS:

Main constituents:

Natural rubber latex

Ammonia

9) PHYSICAL AND CHEMICAL PROPERTIES:

White liquid.

Freezing point

O°C

Boiling Point

100°C

Viscosity

Typically 15 poise at 20°C

Flash point

None

рН

Typically 10

10) STABILITY AND REACTIVITY:

The adhesive is stable unless it comes into contact with copper or copper containing alloys in which case it will gel. The pH must also be kept above 8

11) TOXICOLOGICAL INFORMATION:

This adhesive contains ammonia which is poisonous in large quantities, however the content - less than 5% - ensures that provided normal good housekeeping procedures are followed no undue hazard is present.

12) ECOLOGICAL INFORMATION:

This adhesive must not be allowed to reach drainage systems or water courses.

13) DISPOSAL INFORMATION:

Dispose of in sealed containers in approved bulk disposal units. Advise contractor of contents.

14) TRANSPORT INFORMATION:

Transport in conditions which prevent adhesive being exposed to temperatures above 30°C or below 5°C.

In case of spillage proceed as in 6 above.

15) REGULATORY INFORMATION:

Not applicable.

16) OTHER INFORMATION:

None.

*** Material Safety Data Sheet *** CAPITAL ADHESIVES & PACKAGING CORPORATION 1260 S. OLD ST. RD. 67 MOORESVILLE, IN 46158 (317) 834-5415

12 1

CREATION DATE: 6.20	2.2002		REVISION DATE: 4.12.	2006
***************************************	I. PR	ODUCTION IDE	NTIFICATION	•
PRODUCT CODE		**************************************	.L179, L179, L17910, L17920, L17950, L17970 .Same as PRODUCT NAME .NATURAL RUBBER LATEX	UD1000
	2. F	IAZARDOUS IN	GREDIENTS	
Chemical	CAS No.	Wt%	Exposure Limits	
Ammonium Hydroxide	1336-21-6	<1.0%	25 ppm TWA (ACGIH)	
Recommended HMIS Rai				
d à faireirea a an an à milit (°°).		3. PHYSICAL	DATA	•
PURE MATERIAL OR MIX				•
PHYSICAL FORM	DESCRIPTION	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LIQUID LIGHT CREAM OR COLORED LIQUID	
	************		TYPICAL AMMONIA ODOR.	
PH AS IS				
BOILING-POINT				
SOLUBILITY IN WATER.				
SPECIFIC GRAVITY (WAT				
BULK DENSITY				
VOLATILES				
EVAPORATION RATE			* · · - * - *	
VAPOR PRESSURE (mmH				
VAPOR DENSITY (Air = 1) VOLATILE ORGANIC CO) L MOLINIDO	****************	not determined	
VOLATILE ORGANIC CO	WIFOUNDS		·M1	
	4. F	IRE AND EXPLO	DSIVE DATA	
AUTOIGNITION				
FLASH POINT			>250°F METHOD: TAGLIBUE CLOSED	
			TESTER/TAG CLOSED TESTER	
UPPER EXPLOSIVE LIMIT				
LOWER EXPLOSIVE LIMI				
EXTINGUISHING MEDIA.	****************************	************************	Water or Foam	
	4. FIRE	AND EXPLOSI	VE DATA cont'd	
SPECIAL FIRE FIGHTING FIRE & EXPLOSION HAZA			None Known Drums may burst from steam pressure from extre	me
NFPA FLAMMABILITY HA			temperatures.	

*** Material S	afety Data Sheet ***
5. HEALTH	HEFFECTS DATA
SHORT TERM EF	FECTS OF EXPOSURE
ROUTE OF ENTRY ACUTE EFFECTS	Ammonia – Irritation of the respiratory tract. INGESTION Coughing SKIN CONTACT NO HAZARD IN NORMAL USE. EYE CONTACT
EYE	LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS GET PROMPT MEDICAL ATTENTION Flush from skin with water.
INHALATION	
INGESTION	NONE
LONG-TERM EF	FECTS OF EXPOSURENONE KNOWN
TARGET ORGANS	NONE KNOWN
SPECIAL H	EALTH EFFECTS
TOXICOLO NON TOXIC	GY INFORMATION
****	PERSONAL PROTECTIVE EQUIPMENT
CONDITIONS UNDER WHICH PPE REQ'D EYE PROTECTION REQUIREMENTS GLOVE REQUIREMENTS CLOTHING REQUIREMENTS CHANGEREMOVAL OF CLOTHING WASH REQUIREMENTS RESPIRATOR REQUIREMENTS VENTILATION REQUIREMENTS	Not Required
7. R	EACTIVITY
STABILITY INCOMPATIBILITIES NFPA REACTIVITY HAZARD CLASS HAZARDOUS DECOMPOSITION PRODUCTS HAZARDOUS POLYMERIZATION	

*** Material Safety Data Sheet ***
8. SPILL AND LEAK PROCEDURES
SPILL OR LEAK PROCEDURES
WATER DISPOSAL METHODSWASTE DISPOSAL SHOULD BE IN ACCORDANCE WITH EXISTING FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
9. HANDLING AND STORAGE PRECAUTIONS
STORAGE TEMPERTURE
HANDLING/STORAGESTORE IN CLOSED CONTAINERS, KEEP FROM FREEZING, KEEP IN VENTILATED AREA, MINIMIZE CONTACT WITH ATMOSPHERIC AIR, AVOID BREATHING VAPORS, AVOID EATING DRINKING OR SMOKING AROUND OPEN CONTAINERS
10. SHIPPING INFORMATION
DOT SHIPPING NAME
11. OTHER REGULATORY
TSCAALL COMPONENTS ARE ON THETSCA INVENTORY.
SARA HAZARD NOTIFICATION This product may contain the following substances at or above reporting threshold:
PROPOSITION 65 STATEMENT

"OUR SERVICE ENGINEERS ARE AVAILABLE TO HELP PURCHASERS OBTAIN BEST RESULTS FROM OUR PRODUCT, AND RECOMMENDATIONS ARE BASED ON TEST AND INFORMATION BELIEVED TO BE RELIABLE. HOWEVER, WE HAVE NO CONTROL UNDER WHICH OUR PRODUCTS ARE TRANSPORTED TO, STORED, HANDLED, OR USED BY PURCHASERS AND, IN ANY EVENT, ALL RECOMMENDATIONS AND SALES ARE MADE ON CONDITION THAT WE WILL NOT BE HELD LIABLE FOR ANY DAMAGES RESULTING FROM THEIR USE. NO REPRESENTATIVE OF OUR HAS ANY AUTHORITY TO WAIVE OR CHANGE THIS PROVISION."

ARE:None

Page 1 HO187-EDVersion 1.002 07/26/92

MATERIAL SAFETY DATA SHEET

H. B. Fuller Company 1200 Wolters Boulevard Vadnais Heights, Minnesota 55110 Date: 26 July 1992

Prepared by: Industrial Hygiene Telephone Number: 612/481-3300

Emergency Medical Telephone Number: 800/228-5635 ext 018

PRODUCT IDENTIFICATION

H. B. Fuller Company Name: FR-0187-EE

Product Class: SYNTHETIC RESIN based product in water

DOT Proper Shipping Name: Not regulated

WARNING STATEMENTS

No specific warnings for normal use conditions.

PRECAUTIONARY MEASURES

Avoid temperature extremes in storage.

EMERGENCY AND FIRST AID PROCEDURES

FIRST AID:

If in eye:

Flush immediately with water for 15 minutes. Consult a physician if irritation persists.

If on skin:

Wash affected area with soap and water. Launder contaminated clothing before reuse.

If vapors inhaled:

Remove subject to fresh air.

In case of fire:

This product is non-flammable in the liquid state.

Use water spray, foam, dry chemical or carbon dioxide on dried product.

Spill or Leak:

Contain and remove with inert absorbent. Keep spill

out of sewers.

HAZARDOUS INGREDIENTS

Level In Product

OSHA PEL

ACGIH TLV (1990-1991)

Material Name/CAS #

10 ppm

10 ppm

Residual vinyl acetate monomer (108-05-4)
Vapor pressure, in mm Hg @ 20 C. 92
OSHA STEL: 20 ppm
ACGIH STEL: 20 ppm

This MSDS is prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Unlisted ingredients are not 'Hazardous' per this OSHA Standard and are considered to be trade secrets of the H. B. Fuller Company. Identities of trade secret ingredients will be made available following the procedures specified in the standard.

OCCUPATIONAL CONTROL PROCEDURES

Eye Protection:

Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if splashing is likely. Have eye washes available where eye contact can occur.

Page 2 R0187-PH 07/26/92 version 1.001

HAZARDOUS INGREDIENTS

Level ACGIH TLV (1990-1991) Material Name/CAS # In Product OSHA PEL

Residual vinyl acetate monomer <0.5t (108-05-4)
Vapor pressure, in mm Hg @ 20 J: 92
OSHA STEL: 20 ppm
ACGIH STEL: 20 ppm 10 ppm 10 ppm

This MSDS is prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Unlisted ingredients are not 'Hazardous' per this OSHA Standard and are considered to be trade secrets of the H. B. Füller Company Identities of trade secret ingredients will be made available following the procedures specified in the standard.

OCCUPATIONAL CONTROL PROCEDURES

Eye Protection:

Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if splashing is likely. Have eye washes available where eye contact can occur.

Skin Protection:

Prevent prolonged or repeated contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before

reuse.

Not normally required. Use NIOSH/MSHA approved respirator if conditions warrant. Respiratory Protection:

Ventilation: General dilution ventilation.

FIRE PROTECTION

Flash Point/Method: Non-tlammable

Vbbiobriece Non-flammable in liquid state; use water spray, foam, dry chemical or carbon dioxide on dried Extinguishers:

product.

Special Fire Fighting

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Procedures:

Unusual Fire and There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers. Explosion Hazards:

REACTIVITY DATA

Stability: \$1.1) e

Incompatibility: No. stablished

Hazardous Decomposition Projects: Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide, nitrogen compounds, sulfur compounds

Hazardous Polymerization: Will not occur.

EFFECTS OF OVEREXPOSURE

Eyes: Direct eye contact with the product may cause

irritation.

Page 3 用**の**即一語 version 1.002 07/26/92

PHYSICAL DATA

Physical State:

Licuid

Weight per Gallon:

8.8 -/- 0.2 (lb/gal)

Viscosity:

250 +/- 50 CPS

% Solids by Weight:

53 +/- 3

pH:

4.5 +/-

Boiling Range:

Granthan 200 F

Soluble in Water:

Mis ble

SPILL, LEAK & DISPOSAL INFORMATION

Spill or Leak Procedures: Dike if necessary, contain spill with Inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds or water systems.

Waste Disposal:

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It does not contain any added raw materials with known levels of TCLP constituents as identified in section 261.24 of the U.S. EPA Hazardous Waste Regulation. Leachate tests have not been performed. State or local hazardous waste regulations may apply if they are different from the federal regulation. Solidify and dispose of in an approved landfill. For additional waste disposal assistance, consult H.B. Full T Environmental Services at 612/481-1588.

JTORAGE

Protect from freezing - product - Sility may be affected.

ADDITIONAL INFORMATION

In storage, monomer vapors will a trate from the emulsion and establish an equilibrium between the headspact in the storage container and the liquid emulsion. Levels in excess of acceptable exposures can accumulate in non-vented headspaces above the emulsion. All procedures appropriate for a confined space entry should be completed prior to performing any work in a bulk storage tank.

This product contains trace amounts (less than 0.1%) of formaldehyde. Formaldehyde has been identified as an animal carcinogen. Overexposure to formaldehyde should not occur with normal handling and use.

REGULATORY INFORMATION

TSCA

All components of this product a egistered under the regulations of the Toxic Substances Control Act.

Page 4 #0187-Beversion 1.002 07/26/92

SARA TITLE III

Section 313: This product contains the following toxic chemical(s) subject to the corting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (S and 40 CFR part 372:

Chemical Name

Number

Percentage

Vinyl acetate

108-05-4

This information must be included in all MSDS that are copied and distributed for this material

PR-3735 PR

Dolm Printed: 68/07/95

Page 1 of 5

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION

MSDS INFORMATION

H.B. Fuller Company 1200 Wolters Boulevard

Vadnais Heights, NN 55110

Phone: 612-481-3300 Fax: 612-481-3309 Preparation Date: 11/08/94

Supersedes: 12/15/88

Propared By: Industrial Hygiene

Phone Number: 612-481-4842

Medical Emergency Phone Number: 1-800-228-5535 ext 018
Transport Emergency Phone Number | CHEMTREC): 1-800-424-9300

PRODUCT INFORMATION

Product Name/Number: PR-J755 PR
Product Description (product use): Water based adhesive

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Mazardous Materials Information System (WHMIS). Unlisted ingredients are not 'hazardous' per the OSHA standard and/or are not found on the WHMIS Ingredient disclosure list.

ACGIH TLV Chemical/CAS Number OSHA PEL Percent Not estab. Not estab. 1-5% Butyl benzyl phthalate (85-68-7) LD50: 2339 mg/kg (oral, rat) LC50: No data found 10 ppm <0.5% 10 ppm Residual vinyl acetate monomer (108-05-4) LD50: 2920 mg/kg (oral, rat) LC50: 2828 prm/4h (rat) Vapor pressure, in mm Hg € 20 C: 92 OSHA, ACGIN STEL: 20 ppm

See Santian 16 for additional information.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

No specific warnings for normal use conditions.

POTENTIAL HEALTH EFFECTS

. Eyes: Eye contact with liquid product may cause irritation.

Skin: Prolonged or repeated contact with liquid product may cause irritation.

PR-1755 PR

Date Printed: 09/07/95

Page 2 of 5

Inhalation: Expusure to vapors in poorly ventilated areas may cause irritation of the nose, throat and respiratory tract.

Ingestion: Not an quticipated route of exposure. Small amounts are not anticipated to be harmful.

Chronic: Overexposure to vinyl acetate is not expected to occur during normal handling and use of this product. Vinyl acetate has been shown to cause irritation and cancer in inhalation studies with laboratory animals. Test levels of 600 ppm caused an increase in tumors in the respiratory tract of the best animals. No tumors were observed in the animals exposed at 50 ppm or lower. There is no evidence that vinyl acetate has caused cancer in humans.

REGULATED CARCINGEN STATUS:

This product does not contain regulated levels of NTP, IARC, ACCIH or ONHA listed carcinogens.

Existing Mealth Conditions Affected by Exposure: No known effects on other Illnesses.

SECTION 4: FIRST AID MEASURES

- If in aya: Flush immediately with water for 15 minutes. Consult a physician if irritation persists.
- If on skin: Wash affected area with soap and water. Launder contaminated clothing before reuse.
- If vapors inhaled: Remove subject to fresh air.
- If ingosted: If person can swallow, give one glass of water or milk.

 Do not induce vomiting. Get immediate medical attention.

 Nover give onything by mouth to an unconscious person.

SECTION S. FIRE FIGHTING MEASURES

Flash Point/Mothod: Non-flammable

Upper Explosive Limit/Lower Explosive Limit: Not applicable

Autoignftion Tomporature: Not applicable

- Appropriate Extinguishers: Non-flammable in liquid state; use water spray, foam, dry chemical or carbon dioxide on dried product.
- Special Fire Fighting Procedures: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
- Unusual fire and Explosion Hazards: There is the possibility of pressure buildup in closed containers when heated. Water

PR-3755 PR

Date Printed: 08/07/95

Page 3 of 5

Hazardous Combustion Product: Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill of Leak Procedures: Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds or water systems.

SECTION 7: HANDLING AND STORAGE

HANDLING INFORMATION

Wear oppropriate protective equipment when working with this product.

STORAGE INFORMATION

Avoid temperature extremes in storage.

Consult the Technical Units Sheet for specific storage instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Projection: Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if splashing in likely. Have eye washes available where eye contact can occur.

Skin Protection: Prevent prolonged or repeated contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before reuse.

Respiratory Protection: Not normally required. Use NIOSH/MSHA approved respirator if conditions warrant.

Ventilation: General dilution ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: WHITE

Odor: Mild, sweet
Odor Threshold: Not established
Weight per Gallon: 8.8 lbs.

Specific Gravity: Not established

\$ Solida by Weight: 34 pK: 4.6

Boiling Range: Greater than 200 F (93 C)

Fruezing/Melting Point: Not established Vapor Pressure: Not established Vapor Density: Not established Evaporation Rate: Not established

Hater/Dil Partition Coefficient: Not established

PR-3755 PR Dato Printed: 08/07/95

Page 4 of 5

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable

Incompatibility: Not established

Hazardous Docomposition: Not established

. Mazardous Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

No data Available

SECTION 12: ECOLOGICAL INFORMATION

No data avallable

SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. SPA Hazardous Waste Regulations 46 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14: TRANSPORTATION INFORMATION

UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)

DOT Proper Shipping Name: Not regulated

It is our opinion that the information provided here may be used to transport this product in compliance with Canadian Transporation of Dangerous Goods.

SECTION 15: REGULATORY INFORMATION

SARA TITLE III

Section 313: This product contains the following toxic chemical(s) subject to the reporting requirements c. section 313 of Title III of the Superfund Amendmorand Reauthorization Act of 1986 (SARA) and 40 CFR part 372:

Chomical Name	CAS Number	Percent
vinyl acetate	108-05-4	<0.5%
Butyl bonzyl phthalato	85-68-7	1-5%

PR-3755 PR

Date Printed: 08/07/95

Page 5 of 5

WHMIS IDENTIFICATION/OTHER INTERNATIONAL REGULATIONS

Not regulated

BECTION 16: ADDITIONAL INFORMATION

In storage, monomer vapors will migrate from the emulsion and establish an equilibrium between the headspace in the storage container and the liquid emulsion. Levels in excess of acceptable exposures can accumulate in non-vented headspaces above the emulsion. All procedures appropriate for a confined space entry should be completed prior to performing any work in a bulk storage bank.

This product contains trace amounts (1000 than 0.1%) of formuldehyde. Formaldehyde has been identified as an animal tarcinogen. Overexposure to formaldehyde should not occur with normal handling and use.

HMIS RATING

Health-i Flammability-0

Reactivity-0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective ognipment recommendations.

The information and recommendations set forth herein are believed to in accurate. Because some of the information is derived from information provided to the H.D. Fuller Company from its suppliers, and because the H.D. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, express or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility from use or relience thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.



Building Bonds that Lost

1260 S. Old St. Rd. 67 Mooresville, IN 46158 (317) 834-5415

Creation Date: 8/22/92

Revision Date: 4/27/07

T	Product	Ident	ification

PRODUCT TYPE	Resin Adhesive
PRODUCT NAME	R40603, R40603B, R40603P, R40603U
PRODUCT CODE	
CHEMICAL FAMILY	
SYNONYM NAME(S)	
~ 4 4 7 6 1 8 176 176 176 16 1 W J 1111 1111 1111 1111 1111 1111	12 mtt m 1 1 m

2. Hazardous Ingredients

Chemical	CAS No.	Wt %	Exposure Limits
Vinyl Acetate	108-05-4	<0.07%	10ppm TWA (ACGIH)
Formaldehyde	50-00-0	≤0.05%	0.75ppm TWA (OSHA)
Acetaldehyde	75-07-0	<0.01%	200ppm TWA (OSHA)
Methanol	67-56-1	<0.02%	200ppm TWA (OSHA)

Recommended HMIS Rating: 100B

3. Physical Data

Pure Material or Mixture	Mixture			
Physical Form	Liquid			
Appearance/Physical Description	White, Blue, Pink or Fluorescent Liquid,			

PH as is				
Boiling Point				
Freezing Point				
Solubility in Water	Miscible			
Specific Gravity (Water =1)				
Bulk Density				
Volatiles	50%			
Evaporation Rate	of water			
Vapor Pressure (mmHg)				
Vapor Density (Air = 1)				
Volatile Organic Compounds				
d Fire and Fra	lociva Data			

4. Fire and Explosive Data

Auto Ignition	Unknown
Flash Point	

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Upper Explosive Limit (%)	
Lower Explosive Limit (%)	
Extinguishing Media	

Fire & Explosion Hazards	Special Fire Fighting Procedures	Alcohol Foam Self -Contained Breathing Apparatus to Protect against Potentially Toxic and Irritating
Flame I = Slight 5. Health Effects Data Short Term Effects of Exposure Inhalation Acute Effects. No Hazard in Normal Use Ingestion Acute Effects. No Hazard in Normal Use. Route of Entry Skin Contact Acute Effects. No Hazard in Normal Use. Route of Entry Skin Contact Acute Effects. No Hazard in Normal Use. First Aid Procedures Eye Contact Acute Effects. First Aid Procedures Eyes. Immediately Flush Eyes with Large Amounts of Water for at least 15 Minutes, Lifting Upper and Lower Lids. Get Prompt Medical Attention. None Ingestion. None Ingestion. None Long -Term Effects of Exposure None Target Organs. Special Health Effects None Toxicology Information None Carcinogenicity. None Toxicology Information None Conditions under Which PPE Req'd Normal Work Conditions Eye Protection Requirements Not Required Closhing Requirements Not Required Closhing Requirements Not Required Wash Requirements Not Required Not Required Wash Requirements Not Required Wash Requirements Not Required Not Required Wash Requirements Not Requirements Not Required Wash Requirements Not Required Not Required Wash Requirements Not Required Not Required Not Required Closhing Requirements Not Required Closhing Requ		fumes.
Short Term Effects Data Short Term Effects of Exposure Route of Entry	Fire & Explosion Hazards	
Short Term Effects of Exposure Inhalation Acute Effects. No Hazard in Normal Use Route of Entry. Ingestion Acute Effects. No Hazard in Normal Use Route of Entry Route of Entry Route of Entry Route of Entry Skin Contact Acute Effects. No Hazard in Normal Use. Route of Entry Ro	NFPA Flammability Hazard Class	I = Slight
Route of Entry		20000000 h 2000 00 cm m 10000 20000 m 20000 4 2 2 20000 2 2 2 2 2 2 2 2 2 2 2
Route of Entry		
Acute Effects		
Route of Entry	Route of Entry	No Hazard in Normal Use
Acute Effects	Paula of Catal	Ingestion
Route of Entry Skin Contact Acute Effects No Hazard in Normal Use. Route of Entry Eye Contact Acute Effects No Hazard in Normal Use. First Aid Procedures Eyes. Immediately Flush Eyes with Large Amounts of Water for at least 15 Minutes, Lifting Upper and Lower Lids. Get Prompt Medical Attention. * NOTE: Mild Irritant on Eyes. Skin Contact Inhalation. None Inhalation. None Ingestion. Long -Term Effects of Exposure None Target Organs. None Target Organs. None Toxicology Information Non Toxic 6. Recommendations for Personal Protective Equipment Conditions under Which PPE Req'd Normal Work Conditions Eye Protection Requirements Not Required Clothing Requirements. Not Required Clothing Requirements. Not Required Change/Removal of Clothing Not Required Respirator Requirements. Not Required Respirator Requirements. Not Required Ventilation Requirements. Not Require	A cuto Effects	No Hazard in Normal Use.
Acute Effects	Pauls of Enter	Skin Contact
Route of Entry	A cuts Ciffeets	No Hazard in Normal Use.
Acute Effects No Hazard in Normal Use. First Aid Procedures Eyes. Immediately Flush Eyes with Large Amounts of Water for at least 15 Minutes, Lifting Upper and Lower Lids. Get Prompt Medical Attention. * NOTE: Mild Irritant on Eyes. Skin Contact None Inhalation None Ingestion None Ingestion None Long -Term Effects of Exposure Effects of Chronic Exposure None Target Organs Special Health Effects Carcinogenicity None Toxicology Information Non Toxic 6. Recommendations for Personal Protective Equipment Conditions under Which PPE Req'd Normal Work Conditions Eye Protection Requirements Wear Safety Glasses with Side Shields. Glove Requirements Not Required Clothing Requirements Not Required Wash Requirements Not Requ	Acute Effects	Eve Contact
First Aid Procedures Immediately Flush Eyes with Large Amounts of Water for at least 15 Minutes, Lifting Upper and Lower Lids. Get Prompt Medical Attention. * NOTE: Mild Irritant on Eyes. Skin Contact	Koule of Entry	No Hazard in Normal Use.
Eyes	Acute Lifects	iest Aid Procedures
Water for at least 15 Minutes, Lifting Upper and Lower Lids. Get Prompt Medical Attention. * NOTE: Mild Irritant on Eyes. Skin Contact	*·	Immediately Flush Eyes with Large Amounts of
* NOTE: Mild Irritant on Eyes. Skin Contact Inhalation	Eyes Sanat Land 15 Minutes Lifting Upper and	Lower Lids Get Prompt Medical Attention.
Skin Contact None Inhalation None Ingestion None Ingestion None Long -Term Effects of Exposure Effects of Chronic Exposure None Target Organs None Special Health Effects Carcinogenicity None Toxicology Information Non Toxic 6. Recommendations for Personal Protective Equipment Conditions under Which PPE Req'd Normal Work Conditions Eye Protection Requirements Wear Safety Glasses with Side Shields. Glove Requirements Not Required Clothing Requirements Not Required Change/Removal of Clothing Not Required Wash Requirements Not Required Wash Requirements Not Required Ventilation Requirements Not Requiremen		DOTTO! Died. Gas a comp
Inhalation	NOTE: Mild mitalit off Eyes.	None
Ingestion	1-b-d-ties	None
Long -Term Effects of Exposure Fifects of Chronic Exposure None Target Organs Special Health Effects Carcinogenicity Toxicology Information Non Toxic 6. Recommendations for Personal Protective Equipment Conditions under Which PPE Req'd Normal Work Conditions Eye Protection Requirements Not Required Clothing Requirements Not Required Change/Removal of Clothing Wash Requirements Not Required Wash Requirements Not Required Ventilation Requirements Not Required Ventilation Requirements Not Required Ventilation Requirements Not Required Ventilation Requirements Oeneral 7. Reactivity Stability Stability Stable Incompatibilities NFPA Reactivity Hazard Class NFPA Reactivity Hazard Class Oeneral Carbon Monoxide, Carbon Dioxide	Innaiation	None
Effects of Chronic Exposure	Ingestion	Ferm Effects of Exposure
Target Organs		
Special Health Effects None Toxicology Information Non Toxic 6. Recommendations for Personal Protective Equipment Conditions under Which PPE Req'd Normal Work Conditions Eye Protection Requirements Wear Safety Glasses with Side Shields. Glove Requirements Not Required Clothing Requirements Not Required Wash Requirements Not Required Wash Requirements Not Required Wash Requirements Not Required Wash Requirements Not Required Toxicology Information Normal Work Conditions Wear Safety Glasses with Side Shields. Not Required Toxicology Information Normal Work Conditions Wear Safety Glasses with Side Shields. Not Required Underwind Not Required Wash Requirements Not Required Ventilation Requirements Local; General 7. Reactivity Stability Stable Incompatibilities Water Reactive Materials NFPA Reactivity Hazard Class O=Insignificant Hazardous Decomposition Products Carbon Monoxide, Carbon Dioxide	Effects of Chronic Exposure	None
Carcinogenicity	l arget OrgansSi	necial Health Effects
Conditions under Which PPE Req'd		
Conditions under Which PPE Req'd	To	xicology information
6. Recommendations for Personal Protective Equipment Conditions under Which PPE Req'd		
Conditions under Which PPE Req'd Normal Work Conditions Eye Protection Requirements Wear Safety Glasses with Side Shields. Glove Requirements Not Required Clothing Requirements Not Required Change/Removal of Clothing Not Required Wash Requirements Not Required Ventilation Requirements Local; General 7. Reactivity Stability Stable Incompatibilities Water Reactive Materials NFPA Reactivity Hazard Class O=Insignificant Hazardous Decomposition Products Carbon Monoxide, Carbon Dioxide	6. Recommendation	ns for Personal Protective Equipment
Eye Protection Requirements		
Glove Requirements	Conditions under Willen FFE Req d	Wear Safety Glasses with Side Shields.
Clothing Requirements	Class Provinces	Not Required
Change/Removal of Clothing	Glove Requirements	Not Required
Wash Requirements	Clouding Requirements	Not Required
Respirator Requirements	Unange/Kemovar or Crotting	Not Required
7. Reactivity Stability	Wash Requirements	Not Required
7. Reactivity Stability	Respirator Requirements	Local: General
Stability	ventilation Requirements	بنده هو و و و و و و و و و و و و و و و و و
Stability		
Incompatibilities	Stability	Stable
NFPA Reactivity Hazard Class	Incompatibilities	Mild Kentile latter int
Hazardous Decomposition Products	MEDA Reactivity Hazard Class	0=Insignificant
Hazardous Polymerization	Hazardous Decomposition Products	
	Hazardous Polymerization	

8. Spill and Leak Procedures
Spill or Leak Procedures
9. Handling and Storage Precautions
Handling/Storage
10. Shipping Information
OOT Shipping Name
II. Other Regulatory
SCA
ARA HAZARD NOTIFICATION his product may contain the following substances at or above reporting threshold: ection 302 Extremely Hazardous Substance(s)

"OUR SERVICE ENGINEERS ARE AVAILABLE TO HELP PURCHASERS OBTAIN BEST RESULTS FROM OUR PRODUCT, AND RECOMMENDATIONS ARE BASED ON TEST AND INFORMATION BELIEVED TO BE RELIABLE HOWEVER, WE HAVE NO CONTROL UNDER WHICH OUR PRODUCTS ARE TRANSPORTED TO, STORED, HANDLED, OR USED BY PURCHASERS AND, IN ANY EVENT, ALL RECOMMENDATIONS AND SALES ARE MADE ON CONDITION THAT WE WILL NOT BE HELD LIABLE FOR ANY DAMAGES RESULTING FROM THEIR USE NO REPRESENTATIVE OF OUR HAS ANY AUTHORITY TO WAIVE OR CHANGE THIS PROVISION."

PRODUCT # WB-0525-800

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION American Chemical, Inc. Supplier name: 2201 North 2nd Street Address: Minneapolis, MN 55411 (612) 374-1767 Phone: WB-0525-800 Product Name: Ethylene Vinyl Acetate Product description: Adhesive Chemical Family: SECTION 2 - HAZARDOUS INGREDIENTS % Optional OSHA PEL ACCIH TLV CAS. Reg. Hazardous Components (Chemical Name/Common Name) ***No reportable quantities of ingredients are present*** ***No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present*** Health/Flammability/Reactivity/Personal Protection HMIS Hazard Code: 1 - 0 - 0 - BSubstances listed in the ingredients section are those identified as being present at a concentration of 1 % or greater, or 0.1% if the substance is on the list of potential carcinogens sited in OSHA Hazard Communications Standard SECTION 3 - PHYSICAL DATA 212 Deg. F Boiling Point (Deg. F): of Water Vapor Pressure (mm Hg): of Water Vapor Density (air = I): Soluble Solubility in Water: White Syrup, Slight, Sweet odor Appearance and Odor: I.1 = I.2Specific Gravity (H20=): Approx. 46% Percent Volatile by Volume: of Water Evaporation Rate (water = 1): SECTION 4 - FIR AND EXPLOSION HAZARD DATA Flash Point: None For dried adhesive, use water or chemical foam Extinguishing Media: Apparatus should be worn while fighting chemical fires Special Fire Fighting Procedures: Unusual fire and Explosion Hazard: **None** SECTION 5 - HEALTH HAZARD DATA Threshold Limit Value: See Section II Vomiting, Skin rash Effect of Overexposure: Slight irritation - may cause minor burns or rash Eyes: Slight irritation - may cause minor burns or rash Skin: Inhalation: Essentially non-irritating Irritating - may cause slight burns and vomiting Ingestion: Emergency/First Aid Procedures: Rinse with large quantities of water for 20 min, while holding eyelids Eyes: apart. Never introduce oils or ointments into eyes without medical advice.

Skin:

Remove contaminated clothing. Launder before reuse. Rinse affected

area for 20 min. with large quantities of water.

Inhalation:

Should not cause problems, but if they do occur, remove to a well

vented area.

Ingestion:

Small ingested amounts are not believed to product adverse health effects. Larger amounts (at least several ounces) should be removed

from the stomach by inducting vomiting or aspiration. No adverse

health effects are anticipated. Call a physician.

Primary Route of Entry:

Inhalation - Yes

Skin - Yes Ingestion - Yes

Carcinogenicity:

NTP - No

IARC Monographs - No

OSHA Reg. - No

Medical Conditions Generally

Aggravated by Exposure:

None

SECTION 6 - REACTIVITY DATA

Stability:

Stable

Conditions to Avoid:

None

Incompatibility (Materials to Avoid):

Do not contact strong acids or oxidizer

Hazardous Decomposition Products:

Carbon monoxide and Carbon dioxide

Hazardous Polymerization:

Will not occur

Conditions to Avoid:

N/A

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken if material is

Spilled or Released:

Contain spill in as small an area as possible. Soak up on neutral floor

absorbent and shovel into a drum for disposal.

Waste Disposal Method:

Follow local disposal codes. SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection (specify type):

Ventilation:

None

Local exhaust - necessary

Special - None Other - None

Mechanical (Gen.) - Necessary

Protective Gloves:

Rubber or Buna-N

Eye Protection:

Goggles or safety glasses

SECTION 9 - SPECIAL PRECAUTIONS

Other Protective Equipment:

None

Precautions to be taken in

Handling and Storing:

For industrial use only. Store in a cool, dry area. Keep container

closed. Keep out of reach of children. Do not take internally. Containers when emptied may be hazardous. Use caution; do not

Other Precautions:

Use proper personal protective equipment.

6/2004

REVISION DATE: 07-08-2008

SUPERSEDES:

10-11-2005

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION

H.B. Fuller Company 1200 Willow Lake Boulevard Vadnais Heights, MN 55110 Phone: 888-423-8553

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT INFORMATION

PRODUCT IDENTIFIER:

805499PM

PRODUCT NUMBER:

WB0571

PRODUCT DESCRIPTION:

Natural latex

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

Chemical Name	CAS#	PERCENT	OSHA PEL	
Natural rubber	9006-04-6	50 - 70	Not established	
		1		- 1
	ľ			

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Can cause eye irritation.

Can cause skin irritation. May cause allergic skin reaction. May cause an allergic respiratory reaction.

HMIS RATING: HEALTH -- I FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: Can cause irritation.

SKIN: Can cause skin irritation. May cause sensitization.

INHALATION: Can cause minor respiratory irritation. May cause allergic respiratory reaction. INGESTION: Ingestion is not an anticipated route of exposure. Irritating to mouth, throat, and stomach

LONG-TERM (CHRONIC) HEALTH EFFECTS

TARGET ORGAN(S):

Lungs Skin

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Lung disease; Skin disease including eczema and sensitization

SECTION 4: FIRST AID MEASURES

IF IN EYES: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF VAPORS INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:

AUTOIGNITION TEMPERATURE: LOWER EXPLOSIVE LIMIT (% in air): UPPER EXPLOSIVE LIMIT (% in air):

EXTINGUISHING MEDIA:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SPECIAL FIRE FIGHTING INSTRUCTIONS:

HAZARDOUS COMBUSTION PRODUCTS:

Non flammable Not established

Not established Not established

Use water spray, foam, dry chemical or carbon dioxide.

There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers. Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Carbon dioxide, Carbon monoxide

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: No health effects expected from the cleanup of this material if contact can be

avoided. Follow personal protective equipment recommendations found in

Section 8 of this MSDS.

CLEAN-UP:

Dike if necessary, contain spill with inert absorbent and transfer to containers

for disposal. Keep spilled product out of sewers, watersheds, or water

systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7: HANDLING AND STORAGE

Handling: Mildly irritating material. Avoid unnecessary exposure.

This product contains an ingredient that may release formaldehyde at heated cure

temperatures.

Storage:

Store in a cool, dry place.

Consult the Technical Data Sheet for specific storage instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:

Wear safety glasses when handling this product.

SKIN PROTECTION:

Avoid skin contact by wearing chemically resistant gloves.

GLOVES:

Nitrile

RESPIRATORY PROTECTION:

Respiratory protection may be required to avoid overexposure when bandling this product. Use a respirator if general room ventilation is

not available or sufficient to eliminate symptoms.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134)

VENTILATION:

Use local exhaust ventilation or other engineering controls to

minimize exposures.

EXPOSURE LIMITS:

Chemical Name	ACGIH EXPOSURE LIMITS	AIHA WEEL
Natural rubber	TWA (as total protein) 0.001MG/M3	Not established
	Skin absorption may potentially contribute to the overall exposure to this material.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid COLOR: Tan Sweet Mild ODOR: **ODOR THRESHOLD:** Not established WEIGHT PER GALLON (lbs.): 7.95 SPECIFIC GRAVITY: 0.95 SOLIDS (% by weight): 59.5

10.0 pH: Not established BOILING POINT (deg. C): Not established FREEZING/MELTING POINT (deg. C): VAPOR PRESSURE (mm Hg): Not established Not established VAPOR DENSITY: Not established **EVAPORATION RATE:** Not established OCTANOL/WATER COEFFICIENT:

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

CHEMICAL INCOMPATIBILITY: HAZARDOUS POLYMERIZATION: Not established

Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

CHEMICAL NAME	LD50/LC50
Natural rubber	Not established
	<u></u>

TOXICOLOGY SUMMARY:

NIOSH Alert (No. 97-135, June 1997): Workers exposed to latex gloves and other products containing natural rubber latex may develop allergic reactions such as skin rashes; hives; nasal, eye, or sinus symptoms; asthma; and (rarely) shock.

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available

SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14: TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

DOT: NOT REGULATED IATA: NOT REGULATED

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS

U.S. EPA TSCA:

This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt from

DSL requirements.

EUROPEAN EINECS.

All substances contained in this product meet the requirements of the REACH

regulation implemented in the European Union.

KOREAN TCCL:

This product is in compliance with the Korean Existing Chemicals List

requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at 651-236-5858 (USA) or 450-655-1306 x227 (Canada) to request an export review.

FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations. Chemical Name CA5#

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System. D2B D2A

STATE REPORTING

This MSDS is not prepared for distribution in California.

SECTION 16: ADDITIONAL INFORMATION

This Material Sufety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.

CCL INSERTCU

PA6E

805499PM 01-22-2002

Page 1 of 5

MATERIAL SAFETY DATA SHEET

REVISION DATE: 10-29-2001

SUPERSEDES:

04-10-2001

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION H.B. Fuller Company

3530 Lexington Avenue N. St. Paul, MN 55126-8076 Phone: 651-236-5300

> . Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

PRODUCT INFORMATION

PRODUCT IDENTIFIER:

805499PM

PRODUCT NUMBER:

WB0571

PRODUCT DESCRIPTION:

Natural latex

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for any additional exposure limit guidelines.

Chemical Name	CAS#	PERCENT	OSHA PEL	
Natural rubber	9006-04-6	50 - 70	Not catablished	\dashv
		1		
				- 1

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Can cause eye irritation.

Can cause skin initation. May cause allergic skin reaction.

May cause an allergic respiratory reaction.

HMIS RATING: HEALTH -- 1 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment

recommendations.

POTENTIAL HEALTH EFFECTS BY ROUTE OF ENTRY

EYE: Can cause irritation.

SKIN: Can cause skin irritation. May cause sensitization.

INHALATION: Can cause minor respiratory irritation. May cause allergic respiratory reaction.

INGESTION: Ingestion is not an anticipated route of exposure. Irritating to mouth, throat, and stomach.

LONG-TERM (CHRONIC) HEALTH EFFECTS

410b333864

CCL INSERTOD

PAGE 03

Page 2 of 5

MATERIAL SAFETY DATA SHEET

TARGET ORGAN(S):

805499PM

01-22-2002

Lungs, Skin

REGULATED CARCINOGEN STATUS:

Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.

EXISTING HEALTH CONDITIONS AFFECTED BY EXPOSURE: Lung disease; Skin disease including eczema

SECTION 4: FIRST AID MEASURES

IF IN EYES: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the bead to prevent chemical from transferring to the uncontaminated cyc. Seek medical advice after flushing. IF ON SKIN:

Wash with soap and water. Get medical attention if irritation develops or persists.

IF VAPORS INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:

AUTOIGNITION TEMPERATURE:

LOWER EXPLOSIVE LIMIT (% in air):

UPPER EXPLOSIVE LIMIT (% in air):

EXTINGUISHING MEDIA:

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SPECIAL FIRE FIGHTING INSTRUCTIONS:

HAZARDOUS COMBUSTION PRODUCTS:

Non flammable

Not established

Not established

Not established

Use water spray, foam, dry chemical or carbon dioxide.

There is a possibility of pressure buildup in closed containers

when heated. Water spray may be used to cool the containers. Persons exposed to products of combustion should wear self-

contained breathing apparatus and full protective equipment. Carbon dioxide, Carbon monoxide

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: No health effects expected from the cleanup of this material if contact can be

avoided. Follow personal protective equipment recommendations found in

Section 8 of this MSDS.

CLEAN-UP:

Dike if necessary, contain spill with inert absorbent and transfer to containers

for disposal. Keep spilled product out of sewers, watersheds, or water

systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 7: HANDLING AND STORAGE

Handling: Mildly itritating material. Avoid unnecessary exposure.

Storage:

Store in a cool, dry place.

UUL INSEKICU

THUE

Page 3 of 5

305499Phi 01-22-2002

MATERIAL SAFETY DATA SHEET

Consult the Technical Data Sheet for specific storage instructions.

SECTION 8: EXPOSURE CONTROL S/PERSONAL PROTECTION EYE PROTECTION:

Wear safety glasses when handling this product.

SKIN PROTECTION:

Avold skin contact by wearing chemically resistant gloves.

GLOVES:

Nitrile

RESPIRATORY PROTECTION:

Respiratory protection may be required to avoid overexposure when bandling this product. Use a respirator if general room ventilation is

not available or sufficient to climinate symptoms.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134).

VENTILATION:

Use local exhaust ventilation or other engineering controls to

minimize exposures.

EXPOSURE LIMITS:

Chemical Name	ACCIH EXPOSURE LIMITS	AIHA WEEL
Natural rubber	Not established	Not established
		i

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

COLOR:

ODOR:

ODOR THRESHOLD:

WEIGHT PER GALLON (lbs.): SPECIFIC GRAVITY:

SOLIDS (% by weight):

pH:

BOILING POINT (deg. C):

FREEZING/MELTING POINT (deg. C): VAPOR PRESSURE (mm Hg):

VAPOR DENSITY: **EVAPORATION RATE:**

OCTANOL/WATER COEFFICIENT:

Llquid

Tan

Mild Sweet Not established

7.95

0.95

59.5

10.0

Not established

Not established Not established

Not established Not established

Not established

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

CHEMICAL INCOMPATIBILITY:

Not established Will not occur.

HAZARDOUS POLYMERIZATION:

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

CHEMICALNAME	I.DS0/LCs0	ŀ
Natural rubber	Not established	
	<u> </u>	

01-22-2002

CCL INSERTOU

PAGE 05

Page 4 of 5

MATERIAL SAFETY DATA SHEET

TOXICULOGY SUMMARY:

NIOSH Alert (No. 97-135, June 1997): Workers exposed to latex gloves and other products containing natural rubber latex may develop allergic reactions such as skin rashes; hives; nasal, eye, or simus symptoms; asthroa; and (rarely) shock.

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available

SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14: TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

DOT: NOT REGULATED ...

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS

U.S. EPA TSCA:

This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL: This product is in compliance with the Canadian Domestic Substance List

requirements.

If you need more information about the inventory status of this product call 651-236-5858.

FEDERAL REPORTING

EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 72. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations. Chemical Name CASH %

WHMIS STATUS: Unless listed below, this product is not controlled under the Canadian Workplace Hazardous Materials Information System.

D2B D2A

STATE REPORTING

This MSDS is not prepared for distribution in California.

Page 5 of S

8U04993M 01-22-2002

MATERIAL SAFETY DATA SHEET

SECTION 16: ADDITIONAL INFORMATION

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to the H.B. Fuller Company from its suppliers, and because the H.B. Fuller Company has no control over the conditions of handling and use, the H.B. Fuller Company makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and the H.B. Fuller Company assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company products to comply with all applicable federal, state and local laws and regulations.

AMERICAN CHEMICAL INC. 2201 NORTH 2ND STREET MINNEAPOLIS, MN 55411 PH: 612-374-1767

FAX: 612-377-3590 WEBSITE: www.glueit.com

MATERIAL SAFETY DATA SHEET

PRODUCT # WB-40-5057 SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Supplier name: American Chemical, Inc. Address: 2201 North 2nd Street Minneapolis, MN 55411 Phone: (612) 374-1767 Product Name: WB-40-5057 Industrial Adhesive Product description: **Emergency Number:** 800-424-9300 SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS Chemical Name CAS# % by Weight **Exposure Limits** Modified Natural Rubber Latex Mixture None established **SECTION 3 – HAZARDS IDENTIFICATION** Physical State and Appearance: Off-white liquid **Emergency Overview:** Non-flammable off-white liquid. This product does not present significant health hazard when handled using good industrial hygiene and safety practice. Exposure may cause mild irritation of eyes, skin or respiratory tract. May cause gastrointestinal irritation if swallowed Routes of Exposure: Eyes Skin Inhalation Ingestion Potential Acute Health Effects: Eyes: May be slightly irritating on contact with eyes Skin: May be slightly irritating to the skin on contact Inhalation: Inhalation of the spray mist may cause slight irritation of respiratory tract. Ingestion: May be irritating to the digestive tract Potential Chronic Health Effects: Carcinogenic Effects: Not available Mutagenic Effects: Not available Teratogenic Effects: Not available SECTION 4 - FIRST AID MEASURES Eye Contact: Check for an remove any contact lenses. In case of contact, immediately flush eyes with plenty of water. Get Medical attention if symptoms persist.

Skin Contact: Gently and thoroughly wash the contaminated skin with

running water and non-abrasive soap.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical

attention.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5 - FIRE FIGHTING MEASURES Non-Flammable Flammability of the Product: Not applicable Auto-ignition Temperature: Not applicable Flash Points: Not applicable Flammable Limits: Fire Fighting Media and Instructions: Aqueous mixture is non-flammable SECTION 6 - ACCEDENTAL RELEASE MEASURES Absorb with an inert dry material and place in an appropriate Spill and Leak: waste disposal container. SECTION 7 - HANDLING AND STORAGE Wash thoroughly after handling. Handling: Keep container tightly closed. Prevent from freezing Storage: SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION Use process enclosures, local exhaust ventilation, or other **Engineering Controls:** engineering controls to prevent exposure to airborne vapors or mists. Personal Protection: Safety glasses with side shields. Eye: Wear overalls or long sleeved shirt and long trousers. Body: Wear appropriate respirator when ventilation is inadequate. Respiratory: Gloves, chemical resistant Hands: Safety shoes, chemical resistant Feet: SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES Off-White liquid Physical State and Appearance: Ammoniacal Odor: Off-White Color: 9 to 11 (basic) pH: 0°C (32°F) Melting/Freezing Point: I (Water=I) Specific Gravity: Vapor Pressure: Not available Same as water Volatility: < 0.03% VOC: ~350 cP @ 76 F Viscosity: Easily soluble in cold or hot water Solubility: See solubility in water Dispersion Properties: 100°C (212°F) **Boiling Point:** No additional comments Physical Chemical comments: SECTION 10 - STABILITY AND REACTIVITY the product is stable Stability and Reactivity: Not available Conditions of Instability: Not available Incompatibility with Various Substances: Not available Hazardous Decomposition Products: Will not occur Hazardous Polymerization: SECTION II - TOXI COLOGICAL INFORMATION No data available Toxicity to Animals: No data available Chronic Effects on Humans: No specific information is available Other Toxic Effects on Humans: Special remarks on Toxicity to Animals: No additional remark Special Remarks on Chronic Effects No additional remark On Humans: SECTION 12 - ECOLOGICAL INFORMATION No data available Ecotoxicity:

Toxicity of the Products of	Biodegradation	: No data available		
		- DISPOSAL CONSIDERATONS		
Waste Information: Discard in accordance with federal, state and local regulations.				
Consult your local or region	nal authorities			
	SECTION 14	- TRANSPORT INFORMATION		
DOT Classification:		Not a DOT regulated material (United States)		
Proper shipping Name:		Not applicable		
UN/NA Identification:		Not applicable		
Packing group:		Not applicable		
	SECTION 15 -	REGULATORY INFORMATION		
U.S. Federal Regulations:		TSCA 8 (b) inventory: All compounds are listed or exempt		
		from listing.		
		SARA 302/304/311/312 extremely hazardous substances: No		
		product were found		
		SARA 302/304 emergency planning and notification: No		
		products were found		
		SARA 302/304/311/312 hazardous chemicals: No products were found		
		SARA 311/312 MSDS distribution – chemical inventory –		
		hazard identification. No products were found		
		SARA 313 toxic chemical notification and release reporting: No products were found		
		Clean Water Act (CWA) 307 No products were found		
		Clean Water Act (CWA) 311: No products were found		
		Clean air act (CAA) 112 accidental release prevention: No products found		
		Clean air act (CAA) 112 regulated flammable substances: No		
		products were found		
		Clean air act (CAA) 112 regulated toxic substances; No products were found		
State Regulations:		No products were found		
1.06010110113.		California prop. 65: No products were found		
International Lists:		No additional information		
	SECTION	16 – OTHER INFORMATION		
Hazardous Material Informa		Health - I Fire Hazard - 0 Reactivity - 0		
		the timent of tenentality of		

7/2004

JAN. 28. 2005 4: 29PH

lenk

NO.975 P.4/12

Technische Information Technical Information

Number 51-3063T

TECHNICAL

Description Adhesin

lafonnecion Tecnica Informetión Technique

Type of Adhesive:

Aqueous

Field of Application:

Packaging > General Purpose

Typical Technical Data:

Viscosity:

800 cps. @76°F Brookfloid RVT, #2/20

pH: Color: 5.0 White

Color; Solids:

54%

Properties:

51-3053T is a multipurpose adhesive utilized for case and carton sealing, bag converting, glue lap and other paper to paper isminating applications. This product exhibits a good balance of wet tack, speed of set and ultimate adhesion. It is approved for most Michelman coatings including 40E, 40H and Nomar 70. It runs well on a wide variety of equipment and is formulated for easy clean up. All ingredients in 51-3058T are approved under the Federal Regulation 21 CFR 175,105, which relates to incidental contact of adhesives with food.

Handling and Application:

51-30537 to supplied ready for use. Professed running temperature is 70-85°F. This adheafys cleans up wat or dry.

Precautions:

Do not mix with other adhesives.

Storage Conditions:

51-3053T has a 90 day shelf life. Rotate stock, using oldest first. Keep container covered when not in use to prevent moisture loss and contamination. Do not freeze,

Henkel Adhesives 1348 Gesket Dr., Eight, IL 60120

Tel: (847) 468-9200 Fax: (847) 468-9819

Our information and recommendations do not constitute a warranty of representation for which we assume label responsibility. They are effected solely for your consideration, investigation and verification. All sales, without exception, are made on condition that Henkel Adhesives is not responsible for any incidental consequential or other demages resulting from the use of the products.



DEC. 17.2001 1:48PM

NO.701 P.12/22

DATE: 12/08/00

HENKEL ADHESIVES/MW

PAGE

1

24-HOUR EMERGENCY PHONE NO. CHEMITEC, 800/424-9300

MATERIAL SAPETY DATA SHEET

CHEMICAL NAME:

NONE

TRADE NAME: HENKEL# 51-3053H

CHEMICAL FAMILY: POLYVINYL EMULSION

FORMULA:
MIXTURE

HAZARD CLASS:

U.N. NUMBER:

PACKING GROUP:

***************** PHYSICAL PROPERTIES DATA ************

BOILING POINT: APPROXIMATELY 212 F

SPECIFIC GRAVITY: 1.1

VAPOR PRESSURE (mm HG AT 20 DEG C): SAME AS WATER

PERCENT VOLATILE: 44 - 46%

POR DENSITY: SAME AS WATER VAPOR AVAPORATION RATE: SAME AS WATER

SOLUBILITY IN WATER: DISPERSIBLE WHEN WET

mH: 3.0 - 6.0

APPEARANCE AND ODOR: WHITE LIQUID. POLYVINYL ODOR.

******* PIRE AND EXPLOSION HAZARD DATA ***********

FLASH POINT & METHOD: NONE

FLAMMABLE LIMITS: N/A

LELY: N/A UELY: N/A

EXTINGUISHING MEDIA:

DRIED FILM MAY BURN. USE A-B-C EXTINGUISHER.

SPECIAL FIRE FIGHTING PROCEDURES: NONE UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

THRESHOLD LIMIT VALUE: NOT KNOWN

PRIMARY ROUTES OF EXPOSURE: NO ACUTE SYMPTOMS KNOWN OR EXPECTED.

EYE CONTACT:

MAY CAUSE MILD, TEMPORARY IRRITATION IF SPLASHED IN EYES.

SKIN CONTACT:

MAY CAUSE TEMPORARY RASH OR IRRITATION IF LEFT LONG ON SKIN.

INHALATION: NO KNOWN HARMFUL EFFECTS.

TWGESTION: NO KNOWN HARMFUL EFFECTS.

NO.701 P.13/22

DEC.17.2001 1:49PM

DATE: 12/08/00

HENKEL ADHESIVES/MW

PAGE

24 HOUR EMERGENCY PHONE NO: CHEMTREC, 800/424-9300

MATERIAL SAFETY DATA SHEET

(HENKEL #: 51-3053H: ,

CHRONIC EFFECTS OF EXPOSURE: NO CHRONIC EFFECTS HAVE BEEN REPORTED.

EYE FIRST AID: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER.

SKIN FIRST AID: WASH WITH SOAP AND WATER.

INHALATION FIRST AID: REMOVE PATIENT TO FRESH AIR.

INGESTION FIRST AID: NO SPECIFIC TREATMENT. DO NOT INGEST.

STABLE OR UNSTABLE: STABLE
CONDITIONS TO AVOID: MAY COAGULATE IF OVERHEATED OR FROZEN.
INCOMPATIBILITY: BORAX WILL COAGULATE THE PRODUCT.
HAZARDOUS DECOMPOSITION PRODUCTS:
DRIED FILM MAY GIVE OFF CO AND CO2 WHEN BURNED.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.
CONDITIONS TO AVOID: NONE

.********* SPILL AND DISPOSAL PROCEDURES ************

SPILL PROCEDURES:
CONTAIN SPILL WITH ABSORBENT MATERIAL. PICK UP AS MUCH AS
POSSIBLE, WASH DOWN REMAINDER WITH WATER.
DISPOSAL PROCEDURES:
SANITARY LANDFILL - - CONSULT LOCAL ORDINANCES.

VENTILATION: USE WITH ADEQUATE VENTILATION.
RESPIRATORY PROTECTION: NOT GENERALLY NEEDED.
PROTECTIVE CLOTHING: RUBBER GLOVES PREVENT SKIN IRRITATION.
EYE PROTECTION:
GOGGLES SUGGESTED WHEN TRANSFERRING ADHESIVES; TO GUARD
AGAINST SPLASHING.

HANDLING & STORAGE PRECAUTIONS:
DO NOT MIX WITH OTHER ADHESIVES. KERP CONTAINERS COVERED TO
PREVENT CONTAMINATION. DO NOT FREEZE.
SPECIAL COMMENTS:

NON-HAZARDOUS INGREDIENTS WITHHELD UNDER PA TRADE SECRET STATUS.

PR SARA TITLE III HAZARD CLASS:
NOT HAZARDOUS PER 29 CFR1910.1200

DEC.17.2001 1:49PM

NO.701 P. 14/22

DATE: 12/08/00

HENKEL ADHESIVES/MW

PAGE

3

24-HOUR EMERGENCY PHONE NO: CHEMTREC, 800/424 9300

MATERIAL SAFETY DATA SHEET

(HENKBL #: 51-30539

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF EPA SARA TITLE III SECTION 313 (40CFR372):

CHEMICAL NONE

CAS NUMBER WEIGHT PERCEN

THIS PRODUCT CONTAINS THE POLLOWING CHEMICALS CONSIDERED BY THE STATE OF CALIFORNIA'S SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65) AS CAUSING CANCER OR REPRODUCTIVE TOXICITY AND FOR WHICH WARNINGS ARE NOW REQUIRED:

CHEMICAL NONE

CAS NUMBER WEIGHT PERCENT

THE INFORMATION SUPPLIED HEREIN RELATES TO THE PRODUCT NAMED AND IS BASED UPON INFORMATION HENKEL ADHESIVES BELIEVES TO BE ACCURATE. NO WARRANTY, EXPRESS OR IMPLIED, IS INTENDED. THIS INFORMATION IS OFFERED SOLELY FOR YOUR CONSIDERATION AND INTERPRETATION.

FREPARED BY: VINCENT A. LAURIA

DATE: 08/29/96

General Use Lubricants & Oils



Naterial Safety Date Cheet 76000 1170° MSDS: 11769 - ELEGTRICAL GRADE SILICONE AERO Plant #: 404 Incertoo eccresensous sesses - - - - - - 1/21/53 Caricod: 11.12 (5 Status: Panding Formula: NOT GIVEN Part Number: FOT SIVEN Specification: NOT GIVEN Keyword: MOT GIVEN Synonyms: NOT GIVEN Stock Items: NOT GIVEN Manufacturer CRC INDUSTRIES. INC. 885 LOUIS DRIVE Phone: 215-674-4300 WARMINSTER, PA 18974 Emergency: Supplier CRC INDUSTRIES, INC. 885 LOUIS DRIVE Phone: 215-674-4300 WARMINSTER, PA 18974 Emergency: Physical/Chemical Characteristics Boiling Point EQ 141 円 INITIAL. Melting Point: NG Freezing Point: ND Softening Point: NG Specific Gravity: EQ 0.6694 Vapor Pressure: NO Vapor Density: GT 1 GREATER. Percent Volatiles: EQ 97% Evaporation Rata: N+ RAFID. PH NA Molecular Weight: NG Viscosity NG Solubility in Water ..: NOT SOLUBLE. Odor/Appearance/Other Characteristics: CLEAR WATER-WHITE LIQUID / SOLVENT ODOR / PHYS. DATA: (WITHOUT PROPELLANT). Fire and Explosion Data Closed Cup Flash Pt. .: LT 20 F TCC. Open Cup Flash Point .: NG Fire Point: NG

Auto Ignition: NG Lower Explosion Limit : ND Upper Explosion Limit : ND

Shipping Regulations

UN/NA Number: NG DOT Hazard Class: NG

Shipping Label: NOT GIVEN Shipping Name: NOT GIVEN Material Safety Data Sheet MSDS: 11709

MSDS: 11769 - ELECTRICAL GRADE SILICONE AERO

Prepared

Preparer's Name & Title: JON EROUN

Preparation Data: 11/12/92

Component(s):

DIMETHYL POLYSILOXANE

OSHA Pel: NA ppm NG mg/m3 ACGIH TLV: NA ppm NG mg/m3 STEL: NG ppm NG mg/m?

Percent of Product: BT 2% 5% CAS No.: 53146027

ISOHEXANES

OSHA Pel: 500 ppm NG mg/m3
ACGIH TLV: 500 ppm NG mg/m3
STEL: NG ppm NC mg/m3

Percent of Product: BT 55% 65% CAS No.: 197305

N-HEXANE

OSHA Pel: 50 ppm NG mg/m3
ACGIH TLV: 50 ppm NG mg/m3
STEL: NG ppm NG mg/m3

Percent of Product: BT 5% 10% CAS No.: 110543

PROPANE

OSHA Pel: 1000 ppm NG mg/m3 ACGIH TLV: NA ppm NG mg/m3

STEL: NG ppm NG mg/m3

Percent of Product: BT 10% 20% CAS No.: 74986

ISOBUTANE

OSHA Pel: NA ppm NG mg/m3 ACGIH TLV: NA ppm NG mg/m3 STEL: NG ppm NG mg/m3

Percent of Product: BT 10% 20% CAS No.: 75285

Note: OTHER LIMITS: 1000 PPM.

Text Section(s)

PRODUCT IDENTIFICATION

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

PRODUCT NAME: ELECTRICAL GRADE SILICONE AERO

Material Safety Data Sheut MSD : 11767 MSDS: 11789 - ELECTRICAL GRADE BILIDORE SERO

PRODUCT: 0100:

MSDS 02094

MANUFACTURED BY: CRU INDUSTRIES, INC.

SSS LOUIS COIVE

WARMINSTER, PA 18974

PHONE: (215) 674-4300

INGREDIENTS

SEE COMPONENTS PAGE(S) FOR ADDITIONAL INFORMATION.

PHYSICAL DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

FIRE AND EXPLOSION DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

EXTINGUISHING MEDIA: CO2, dry chemical, foam

UNUSUAL HAZARDS: Aerosols containers may explode when heated above 120 F.

Vapors generated are extremely flammable.

REACTIVITY AND STABILITY

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL: Carbon monoxide, carbon dioxide

MATERIALS TO AVOID: Strong oxidizers

PROTECTION INFORMATION

VENTILATION: Maintain vapor concentration below TLV. Use mechanical means

if necessary.

Material Safaty Data Sheet MSCS: 11769

MSDS: 11769 - ELECTRICAL GRADE SILICONE AERO

RESPIRATORY: Use self-contained breathing apparatus above TLV.

GLOVES: Solvent resistant

EYE & FACE: Safety glasses

OTHER PROTECTIVE EQUIPMENT: Not normally required for aerosol product usage.

HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation, Skin

SIGNS AND SYMPTOMS OF EXPOSURE:

ACUTE OVEREXPOSURE:

EYES: Burning and irritation.

SKIN: Mild irritation.

INHALATION: Irritation of respiratory tract, dizziness, headaches, central nervous system depression.

CHRONIC OVEREXPOSURE: Repeated overexposures may cause harm to the nervous system.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing lung disorders.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM: No

IARC MONOGRAPHS: No

OSHA: No

EMERGENCY AND FIRST AID PROCEDURES: (If symptoms persist, call a physician).

INHALATION: Remove to fresh air. Apply artificial respiration if necessary.

EYES: Flush with large amounts of puter for 15 minutes.

SKIN: Wash exposed area with soap and wate. Remove contaminated clothing.

Naterial Safety Data Sheet

MSDS: 11769 - ELECTRICAL GRADE SILICONE AERO

INGESTION: Do Not laduce vemiting. Call a phytician.

SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HAMDLING AND STORAGE: Store in a Coul, dry area.

STEPS TO BE TAKEN IN CASE MATERIALS IS RELEASED OR SPILLED: Remove sources of ignition, ventilate area. Absorb spill with an inert about material.

WASTE DISPOSAL: All used and unused Product should be disposed of in comformance with local, state and federal regulations.

SPECIAL PRECAUTIONS AND USE DIRECTIONS

Aerosol cans may explode when heated above 120 F. Use product in areas with good ventilation. Vapors are heavier than air and will collect in low areas.

NFPA HAZARD RATINGS

NFPA HAZARD RATINGS:

HEALTH: 2

FLAMMABILITY: 4
REACTIVITY: 0

SARA INFORMATION

This product contains NO chemicals that are subject to release reporting under section 313 of SARA Title III.

End of MSDS

MSDS: 11769



LPS LABORATORIES MSDS **MATERIAL SAFETY DATA SHEET**

Section 1 - Product Identification and Use

Manufacturer's Name:

LPS Laboratories

Street Address:

4647 Hugh Howell Road

City, State, Zip:

Tucker, GA 30085-5052

Telephone Number: 770-934-7800

Emergency Telephone Number: 1-800-424-9300 Chemirec

Outside U.S.: (703) 527-3887

Hazardous Materials Description and proper shipping name (49 CFR 172,101): NMFC 50093 SUB 2 BRL/BXS CL55

Compound, Boiler, Preserving Liquid

CONSUMER COMMODITY ORM-D

TSCA Inventory: All of the ingredients are listed on the TSCA inventory. HMIS Labeling:

Trade Name:

Chemical Family:

Part Numbers:

Petroleum Hydrocarbons

00216, 02128, 00205, 00255 00222, LPS-2, LPS-2G

LPS 2 Industrial-Strength Lubricant

Health:

Flammabllity: 2

Reactivity:

Section 2 - Hazardous Ingredients / Identity information

Ingredients Aliphatic Hydrocarbon Petroleum Oil	CAS Numbers 64742-47-8	%WW 50-70	OSHA PEL N.E.	ACGIH TLV N.E.	OTHER LIMITS 100 PEL**
(severely hydrotreated) heavy	64742-52-5	10-20	5mg/m3*	5mg/m3*	10 mg/m3* STEL
Carbon dioxide propellant (aerosol	only) 124-38-9	2-3	10,000 ppm	5,000 ppm	30,000 ppm STEL
* Oil mist	••			-	
**Pagemented by Constine					

Recommended by Supplier

Section 3 - Physical / Chemical Characteristics

Bolling point (F°): 350°F Specific gravity (H20 = 1): .84 Percent volatile by volume (%): Vapor pressure (mmHg) @100°F: <2 70 Vapor density (Air = 1): 4.7 Evaporation rate (n-Butyl Acetate = 1): ...07 Solubility in water: Nii

Appearance and odor: Light amber liquid with slight odor.

Section 4 - Fire and Explosion Hazard

Flash point (method used): 175°F SETA Flash Flammable limits (of diluent): LEL 1% UEL 6%

Extinguishing media: Foam, dry chemical, carbon dioxide.

Special fire fighting procedures: Do not use water. Treat as combustible petroleum distillates. Unusual fire and explosive hazards: Intensive heat created by fire will cause aerosols to burst.

Section 5 - Health Hazard Data

Primary route(s) of entry: Inhalation, eyes Health hazard/effects of over exposure:

Inhalation: Headache, dizziness, nausea and anesihelic effects.

Eyes: Irrilation

Skin: Repeated or prolonged contact may cause drying of skin.

Ingestion: Nol a likely route of exposure. Low order of oral toxicity; however minute amount aspirated into lungs

OSHA: No

during ingestion may cause severe pulmonary injury.

Medical conditions aggravated by exposure: None from normal exposure.

Chemicals listed as potential carcinogen: NTP: No IARC: No

Emergency and first ald procedures:

Inhalation: Move to fresh air. Contact physician.

Eyes: Flush eyes with plenty of waler and contact physician.

Skin: Wash with soap and waler; apply medicated skin cream.

Ingestion: Contains aliphatic hydrocarbons and petroleum oil. Do not induce vomiting. Contact physician

immedialely.

Section 6 - Reactivity Data

Stability: Slable Conditions to avoid: Avoid sparks or open flames. See handling and storage precautions.

Incompatibility (Materials to avoid): Strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition may yield carbon monoxide.

Hazardous polymerization: Will not occur.

Section 7 - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Ventilale area by opening doors and windows. Remove ignition sources. Remove leaking container and transfer remaining product to another vessel. Prevent product from going into sewers and water sources by diking or impounding. Using appropriate safety equipment, mop up or soak up with absorbent material, such as sand or clay.

Waste disposal methods: Dispose of in accordance with local, state and federal regulations for petroleum distillates.

RCRA Hazardous Waste No.: N.A. CERCLA Reportable Quantity: None SARA TITLE III Chemicals: None

Precautions to be taken in handling and storage: Store aerosols below 120°F and above 32°F. Store away from ignition

sources and avoid breathing vapors.

Section 8 - Control Measures

Respiratory Protection: None required if good ventilation is maintained. For enclosed areas, use NIOSH approved organic vapor cartridge respirator or self-contained breathing apparatus.

Ventilation: Local exhaust is usually adequate. However, mechanical ventilation should be used when spraying in enclosed areas. Vapor concentration should be minimized as much as possible.

Protective gloves: Use solvent resistant gloves for liquid handling.

Eye protection: For spraying or splashing of solvent, use face shield or goggles.

Other protective equipment: None.

Work/hyglenic practices: Wash hands with soap and water after use and/or before breaks, lunch and at the end of work periods. Remove contaminated clothing and launder before reuse.

Section 9 - Preparation Date of MSDS

The foregoing lechnical information and recommendations are compiled from sources that are believed to be accurate and reliable. However, they are supplied without warranty or guarantee of any kind either expressed or implied. The purchaser is responsible for selecting and determining the suitability of products for purchaser's particular needs and we disclaim any responsibility for improper applications or misuse of our products in any manner whatsoever.

January 31,2003
Fred Fugitt, Technical Services Chemist
Ed Williams, Manager of Research and Development
LPS Laboratories

Form # 2501 LPS 2 Industrial Strength Lubricant TW



100934

MATERIAL SAFETY DATA SHEET

IDENTITY (As used on label and list): MAG1 MULTI-PURPOSE LITHIUM GREASE

PRODUCT CODE: MG610014, MG610035, MG610020, MG610003, MG61003D, WIW54205, MG610016

1 - Slight

NFPA Hazard Identification

0 - Least

2- Moderate

3 – High

4 - Extreme

Health: 0

Emergency

Fire: 1

Reactivity: 0

Section I - General Information

Warren Distribution, Inc.

2849 River Road

Council Bluffs, IA 51501

(402) 677-1331

Information

(402) 341-9397

Chemtrec

(800) 424-9300

Reviewed: 02/22/05

Section II - Composition/Information on Ingredients

COMPONENT NAME

0/0

CAS

OSHA PEL

ACGIH TLV

Hydrocarbon Mixture

none est

Naphthenic mineral oil, listed LARC

mist 5mg/m3

NON-HAZARDOUS INGREDIENTS

No IARC, NTP, OSHA and ACGIH listed carcinogens.

Section III - Hazards Identification

EYE CONTACT: Irritating.

SKIN CONTACT: Repeated or prolonged contact can result in drying of the skin.

INHALATION: Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

INGESTION: Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

CARCINOGENICITY: OSHA-potentially carcinogenic {Lab studies in which materials similar to some of the oils in this product were applied to animals repeatedly for their lifetimes caused tumors.}

SIGNS AND SYMPTOMS OF OVEREXPOSURE: As above

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

OTHER HEALTH INFORMATION: None

Section IV - First Aid Procedures

EYE CONTACT: Flush with water; see physician.

SKIN CONTACT: Wash with sop and water. If high-pressure, get immediate medical attention.

INHALATION: Remove from contaminated area.

INGESTION: If irritation develops, see physician.

Section V - Fire and Explosion Hazard Data

Flash Point (deg F): 450 Method Used: COC

Flammable or Explosive Limits (approximate % by volume in air) LEL: ND UEL: ND

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam

SPECIAL FIRE FIGHTING PROCEDURES: Avoid breathing vapors. Use breathing apparatus in confined areas. Cool exposed containers with waterspray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

Section VI - Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Add absorbent to spill area. Keep petroleum products out of sewers and watercourses by damming or impounding. Advise authorities if product has entered sewers or watercourses.

Section VII - Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not handle or store near heat, flames, sparks, or strong oxidants.

OTHER PRECAUTIONS: Do not weld, heat, or drill on emptied containers.

Section VIII Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: None normally needed

VENTILATION: General adequate; Use tocal mechanical to insure TLV's not surpassed (where applicable).

PROTECTIVE GLOVES: Chemically resistant

EYE PROTECTION: Goggles or face shield desirable

OTHER PROTECTIVE EQUIPMENT: None

WORK PRACTICES/ENGINEERING CONTROLS: Keep containers closed when not in use.

PERSONAL HYGIENE: Wash thoroughly after contact. Carcinogenicity bazard can be avoided by practicing good personal hygiene.

Section IX- Physical/Chemical Characteristics

Boiling Point (deg F): ND

Specific Gravity (H2O=1): <1

Vapor Pressure (mm Hg): <.1

Melting Point (deg F): 321

Vapor Density (Air=1): >1

Solubility in Water: Negligible

Evaporation Rate (n-butyl Acetate=1): <1

APPEARANCE AND ODOR: Amber semi-solid gel, mile petroleum odor.

Section X - Reactivity Data

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide, carbon dioxide, unidentified organic compounds

HAZARDOUS POLYMERIZATION: Will not occur

Section XI - Toxicological Information

See Section IV

Section XII - Ecotogical Information

Section XIII - Disposal Considerations

WASTE DISPOSAL METHOD: Dispose of at appropriate waste facility in accordance with regulations.

Section XIV - Transport Information

NOT A REGULATED ITEM ACCORDING TO DOT.

Section XV-Regulatory Information

SARA SECTION 313: This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substances) of any chemical substance listed under SARA Section 313.

WHMIS classification for product: This product bas been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we received from sources outside our company and we believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

E‰onMobil

583021-00 MOBIL HYDRAULIC OIL AW 46 MATERIAL SAFETY DATA BULLETIN 1. PRODUCT AND COMPANY IDENTIFICATION PRODUCT NAME: MOBIL HYDRAULIC OIL AW 46 SUPPLIER: EXXONMOBIL OIL CORPORATION 3225 GALLOWS RD. FAIRFAX, VA 22037 24 - Hour Health and Safety Emergency (call collect): 609-737-4411 24 - Hour Transportation Emergency: CHEMTREC: 800-424-9300 LUBES AND FUELS: 281-834-3296 Product and Technical Information: Lubricants and Specialties: 800-662-4525 800-443-9966 Fuels Products: 800-947-9147 MSDS Fax on Demand: 713-613-3661 MSDS Internet Website: http://www.exxon.com, http://www.mobil.com 2. COMPOSITION/INFORMATION ON INGREDIENTS CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES GLOBALLY REPORTABLE MSDS INGREDIENTS:

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

None.

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15).

EMERGENCY OVERVIEW: Dark Amber Liquid. Note: Pressurized mists may form a flammable mixture. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

For further health effects/toxicological data, see Section 11.

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area.

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.

INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water rog. SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Note: Pressurized mists may form a flammable mixture.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): 198(388) (ASTM D-92).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0% NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13. WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: High pressure injection under the skin may occur due to the rupture of pressurized lines. Always seek medical attention. No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m3 (as oil mist) - ACGIH Threshold Limit Value (TLV), 10 mg/m3 (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m3 (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.

RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator.

EYE PROTECTION: If eye contact is likely, safety glasses with side

shields or chemical type goggles should be worn.

SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid COLOR: Dark Amber

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): 198(388) (ASTM D-92)

FLAMMABILITY (solids): NE AUTO FLAMMABILITY C(F): NA EXPLOSIVE PROPERTIES: NA OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.875 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C, cSt: 46.0 VISCOSITY AT 100 C, cSt: 6.7

POUR POINT C(F): < -18(0) FREEZING POINT C(F): NE

VOLATILE ORGANIC COMPOUND: NE

DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

CORDII TOV (MUCDANI - 1 TOUR - DO 1 - A.

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). --Based on testing of similar products and/or the components.

- DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
- EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
- OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY) ---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

--- REPRODUCTIVE TOXICOLOGY (SUMMARY) ---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

--- CHRONIC TOXICOLOGY (SUMMARY) ---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: Base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

--- SENSITIZATION (SUMMARY)---

Not expected to be sensitizing based on tests of this product, components, or similar products.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

- In the absence of specific environmental data for this product, this assessment is based on information for representative products.
- ECOTOXICITY: Available ectoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.
- MOBILITY: When released into the environment, adsorption to sediment and soil will be the predominant behavior.
- PERSISTENCE AND DEGRADABILITY: This product is expected to be inherently biodegradable.
- BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal.

13. DISPOSAL CONSIDERATIONS

- WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.
- RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

- EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.
- Governmental Inventory Status: All components comply with TSCA, EINICS/ELINCS, AICS, DSL, KOREA, and PHILIPPINES.
- U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME

CAS NUMBER

LIST CITATIONS *

ZINC (ELEMENTAL ANALYSIS) (<0.05%)

7440-66-6

22

PHOSPHORODITHOIC ACID, 0,0-DI

68649-42-3

22

C1-14-ALKYL ESTERS, ZINC SALTS (2:

1) (ZDDP) (0.43%)

			REGULATOR	LIS	TS SEA!	RCHE)		
1=ACGIH ALL	6=IARC	1	11=TSCA	4	16=CA	₽65	CARC	21=LA	RTK
2=ACGIH A1	7=IARC	2A	12=TSCA	5a2	17=CA	P65	REPRO	22=MI	293
3=ACGIH A2	8=IARC	28	13=TSCA	5e	18=CA	RTK		23=MN	RTK
4=NTP CARC	9=OSHA	CARC	14=TSCA	6	19=FL	RTK		24=NJ	RTK
5=NTP SUS	10=OSHA	Z	15-TSCA	12b	20⇒IL	RTK		25=PA	RTK
								26≃RI	RTK

* EPA recently added new chemical substances to its TSCA Section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.

Code key:CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: HYDRAULIC OIL

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES

ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

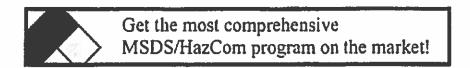
INDUSTRIAL LABEL

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

For Internal Use Only: MHC: 1* 1* 1* 1* 1*, MPPEC: A, TRN: 583021-00, CMCS97: 971019, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 13JUN2003

Information given herein is offered in good faith as accurate, but without quarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Exxon Mobil Corporation and its affiliated companies assume no responsibility for accuracy of information unless the document is the most current available from an official ExxonMobil distribution system. Exxon Mobil Corporation and its affiliated companies neither represent nor warrant that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

Prepared by: ExxonNobil Oil Corporation
Environmental Health and Safety Department, Clinton, USA



Material Safety Data Sheet

SECTION I - Material Identity

SECTION II - Manufacturer's Information

SECTION III - Physical/Chemical Characteristics

SECTION IV - Fire and Explosion Hazard Data

SECTION V - Reactivity Data

SECTION VI - Health Hazard Data

SECTION VII - Precautions for Safe Handling and Use

SECTION VIII - Control Measures

SECTION IX - Label Data

SECTION X - Transportation Data

SECTION XI - Site Specific/Reporting Information

SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name

MOBIL SHC 634 SYNTHETIC Part Number/Trade Name

LUBRICANT OIL

National Stock Number 9150PSHC634

CAGE Code 58563

Part Number Indicator MSDS Number 193824

HAZ Code

SECTION II - Manufacturer's Information

Manufacturer Name IMPERIAL OIL (EXXON MOBIL IS

Street 111 ST CLAIR AVENUE WEST

City TORONTO CA

Country

Zip Code M5W 1K3 519-339-2145 Emergency Phone Information Phone 416-968-4441

MSDS Preparer's Information

Date MSDS Prepared/Revised

11JUL02 Y

Active Indicator

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

Appearance/Odor	DARK ORANGE OIL, PETROLEUM ODOUR
Boiling Point	NA
Vapor Pressure	0.01
Vapor Density	>2
Specific Gravity	0.849
Evaporation Rate	<1
Solubility in Water	INSOLUBLE
Container Type	R
Container Pressure Code	4
Temperature Code	8
Product State Code	υ

SECTION IV - Fire and Explosion Hazard Data

Flash Point	210
Flash Point Method	COC
Lower Explosion Limit	0.6
Upper Explosion Limit	7.0
Extinguishing Media	FOAM, DRY CHEMICAL OR WATER SPRAY
Special Fire Fighting Procedures	USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES & TO PROTECT PERSONNEL. SHUT OFF FUEL TO FIRE. SCBA SHOULD BE USED FOR ALL INDOOR FIRES & ANY SIGNIFICAN OUTDOOR FIRES. FOR SMALL OUTDOOR FIRES, WHICH MAY EASILY BE EXTINGUISHED W/ PORTABLE FIRE EXTINGUISHERS, USE AN SCBA MAY NOT BE REQUIRED

SECTION V - Reactivity Data

Stability	YES
Materials to Avoid	STRONG OXIDIZING AGENTS
Hazardous Decomposition Products	VARIOUS METAL OXIDES
Hazardous Polymerization	ИО
Polymerization Conditions to Avoid	WILL NOT OCCUR

SECTION VI - Health Hazard Data	
Route of Entry: Skin	ט
Route of Entry: Ingestion	U
Route of Entry: Inhalation	U
Health Hazards - Acute and Chronic	[INHALE] IRRITATING TO THE EYES, NOSE, THROAT & LUNGS. AVOID BREATHING VAPORS OR MIST [EYE] SLIGHTLY IRRITATING, BUT WILL NOT INJURE EYE TISSUE [SKIN] LOW TOXICITY. [INGEST] LOW TOXICITY
Emergency/First Aid Procedures	[INHALE] REMOVE TO FRESH AIR. ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION [EYE] FLUSH EYES W/ LARGE AMOUNTS OF WATER. USE SOAP IF AVAILABLE. REMOVE SEVERELY CONTAMINATED CLOTHING & LAUNDER BEFORE REUSE. [INGEST] DO NOT INDUCE VOMITING. KEEP AT REST. GET PROMPT MED. ATTN

SECTION VII - Precautions for Safe Handling and Use

LAND: ELIMINATE SOURCE OF IGNITION. PREVENT SPILLS FROM ENTERING SEWERS, WATERCOURSES OR LOW AREAS. CONTAIN SPILLED LIQUID W/ SAND OR EARTH. WATER: REMOVE FROM SURFACE BY SKIMMING OR WITH SUITABLE ABSORBENTS. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL. ENSURE DISPOSAL IN COMPLIANCE W/ GOVERNMENT REQUIREMENTS

Waste Disposal Method

Handling and Storage Precautions

IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS

KEEP CONTAINERS CLOSED. HANDLE & OPEN CONTAINERS W/ CARE. STORE IN A COOL, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. IN

KEEPING W/ GOOD PERSONAL HYGIENE PRACTICES, WASH HANDS THOROUGHLY AFTER HANDLING MATERIAL. EMPTY CONTAINERS CONTAIN PRODUCT RESIDUE. DO NOT PRESSURIZE, CUT, HEAT

DO NOT WELD EMPTY CONTAINERS.

Other Precautions

DO NOT REUSE EMPTY CONTAINERS WITHOUT COMMERCIAL CLEANING OR RECONDITIONING

SECTION VIII - Control Measures	
Ventilation	LOCAL EXHAUST RECOMMENDED
SECTION IX - Label Data	
Protect Eye	NO
Protect Skin	ио
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
	INICHOLIN
Health Code	пикиоми
Health Code React Code SECTION X - Transportation Data	UNKNOWN
React Code SECTION X - Transportation Data	UNKNOWN
React Code SECTION X - Transportation Data SECTION XI - Site Specific/Reporting Info	UNKNOWN
React Code SECTION X - Transportation Data	ormation
SECTION X - Transportation Data SECTION XI - Site Specific/Reporting Info Volatile Organic Compounds (P/G) Volatile Organic Compounds (G/L)	ormation O
SECTION X - Transportation Data SECTION XI - Site Specific/Reporting Info Volatile Organic Compounds (P/G) Volatile Organic Compounds (G/L) SECTION XII - Ingredients/Identity Infor	ormation O
SECTION X - Transportation Data SECTION XI - Site Specific/Reporting Info Volatile Organic Compounds (P/G) Volatile Organic Compounds (G/L) SECTION XII - Ingredients/Identity Infor Ingredient #	ormation O O O O O O O O O O O O O
React Code SECTION X - Transportation Data SECTION XI - Site Specific/Reporting Info Volatile Organic Compounds (P/G)	ormation O O O O O O O O O O O O O

General Use Cleaning Compounds

- Glass Cleaners
- Floor cleaners
 - Sanitizers
- Janitorial Products

MATERIAL SAFETY DATA ALKALESS V Page: PRODUCT NAME: ALKALESS V HMIS CODES: H F PRODUCT CODE: C002 CHEMICAL NAME: ALCOHOL REPLACEMENT ======= SECTION I - MANUFACTURER IDENTIFICATION ============= MANUFACTURER'S NAME: PRINTERS' SERVICE ADDRESS : 26 Blanchard Street Newark, New Jersey 07105 EMERGENCY PHONE : 1-800-424-9300 LAST REVISION : 08/04/97 INFORMATION PHONE : 1-973-589-7800 DATE REVISED 1 04/09/98 PREPARER : ENVIRONMENTAL DEPT. ====== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION (====== VAPOR PRESSURE MEIGHT REPORTABLE COMPONENTS CAS NUMBER ITM Ha @ TEMP PERCENT * 2-BUTOXYETHANOL 111-76-2 0.6 mmHg 20 C PEL 25 ppm: TLV 25 ppm // LC50 800 ppm/8hr : L050 1.746 g/kg 90 - 100x * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. SPECIFIC GRAVITY (H20-1): 0.90 VAPOR DENSITY : 4.1 (air = 1) VAPOR PRESSURE: 0.6 mn/g DRYING RATE : 0.1(nButyl Aceta.-1) VOC : 7.47 1b/gal METHOD: EPA #24 PHOTOREACTIVE : NO 1120 SOLUBILITY : 100% VOLATILES : 100% APPEARANCE : CLEAR BLUE PHYSICAL STATE : LIQUID ODOR seccesses section iv - fire and explosion hazard data seccesses : MODERATE FLASH POINT : 140 F METHOD USED: TCC FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.1 EXTINGUISHING MEDIA: CARBON DIOXIDE. FOAM, OR DRY POWDER (WATER HAY BE INEFFECTIVE) UPPER: 10.6 SPECIAL FIREFIGHTING PROCEDURES : KEEP CONTAINER COOL. CONTROL COOLING WATER SINCE IT MAY TEND TO SPREAD UNUSUAL FIRE AND EXPLOSION HAZARDS: IF BOILING POINT OF SOLVENT IS REACHED. THE CONTAINER HAY RUPTURE EXPLOSIVELY AND IF IGNITED. GENERATE A FIREBALL. IF NO CONDITIONS: INCOMPATIBILITY (MATERIALS TO AVOID): YES IF YES WHICH ONES: STRONG OXIDIZER HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE. CARBON MONOXIDE ON IGNITION HAZARDOUS POLYMERIZATION: NONE SECTION VI - HEALTH HAZARD DATA INDICATIONS OF EXPOSURE: IMPALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: HEADACHE, DIZZINESS, NAUSEA, VERY HIGH LEVELS OF VAPORS COULD CAUSE UNCONCIOUSNES SLIGHT IRRITATION OF THE NUCOUS MEMBRANE EYE CONTACT AND SYMPTOMS OF EXPOSURE: REDNESS OR BURNING SENSATION.

SKIN HEALTH RISKS AND SYMPTOMS OF EXPOSURE: REDNESS, ITCHING, IRRITATION ON OVEREXPOSURE.

IF IN EYES: FLUSH WITH WATER FOR 15 MIN. LIFT UPPER AND LOWER EYE LIDS. SEE A DOCTOR.

EMERGENCY AND FIRST AID PROCEDURES

IE UN CRIN - PIECE PILLEI CUTE THE TIME

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SEVERE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

MATERIAL SAFETY DATA SHEET

LKALESS V

Page

FFECT OF CHRONIC EXPOSURE: NONE FFECT OF ACCUTE EXPOSURE: NONE

IN ALL CASES OF EMERGENCY AND FIRST AID, WE STRONGLY RECOMMEND A DOCTOR BE SEED

ARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No EDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMITIS. MAY AGGRAVATE EXISTING LIVER ALL DREY ALLMENTS.

TEPS TO BE TAKEN IN CLASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. KEEP AWAY FROM BONG OXIDIZERS. HEAT. SPARKS OR OPEN FLAMES. PREVENT SPILL FROM SPREADING BY USING AN INERT MATERIAL. SUCH AS SAND. AS A DAM. EP OUT OF ALL WATERWAYS OR WATER DRAINS. DO NOT FLUSH AREA WITH WATER. FOR SMALL SPILLS USE ABSORBENT PADS. FOR LARGE SPILLS. LL A SPILL RESPONSE TEAM. IF REQUIRED. CONTACT STATE/LOCAL AGENCIES.

MSTE DISPOSAL METHOD: PRODUCT SOAKED ABSORBENT SHOULD BE PLACED IN SEALED METAL DRUMS FOR DISPOSAL IN ACCORDANCE TH LOCAL. STATE AND FEDERAL REGULATIONS.

ECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP AWAY FROM STRONG OXIDIZERS, HEAT'S SPARKS AND IN FLAMES. DO NOT CUT OR DRILL INTO AN EMPTY CONTAINER IN ANY WAY THAT HIGHT GENERATE A SPARK, SOLVENT RESIDUE IN THE CONTAINER ALD IGNITE AND CAUSE AN EXPLOSION. KEEP CONTAINER TIGHTLY CLOSED AND OUT OF THE WEATHER.

THER PRECAUTIONS: WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE OR PROPERLY DISPOSED OF CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE IS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

: CONTROL MEASURES - CONTROL MEASURES

POSURE CONTROL AND PERSONAL PROTECTION:

PIRATORY PROTECTION: IF TLV IS EXCEEDED USE A GAS MASK WITH APPROPRIATE CARTRIDGES. CANNISTER OR SUPPLIED AIR EQUIPMENT.

TILATION: IF NORMAL VENTILATION IS INADEQUATE USE ADDITIONAL SYSTEMS.ESPECIALLY LOCAL VENTILATION. IF THE VAPOR LEVEL CAN APPROACH

LEL - LOWER EXPLOSION LIMIT. USE EXPLOSION PROOF SYSTEMS.

TECTIVE GLOVES: USE SOLVENT RESISTANT GLOVES.

PROTECTION: USE SAFETY GLASSES OR GOGGLES.

ER PROTECTIVE EQUIPMENT OR CLOTHING: NONE.

RK/HYGIENIC PRACTICES: WASH SKIN/CLOTHES IF THEY COME IN CONTACT WITH THE PRODUCT. DO NOT WEAR CLOTHING WET WITH PRODUCT.

PRESERVED RECTION IX - SHIPPING INFORMATION CHESCHOOLS

OUND SHIPMENT.

ÚN No

NA 1993

0.T HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID- N.O.S.

INFORMATION AND RECOMMENDATIONS HEREIN HAVE BEEN COMPILED FROM OUR RECORDS AND OTHER SOURCES BELIEVED TO BE RELIABLE. HO WANTY. GUARANTY OR REPRESENTATION IS MADE BY PRINTERS' SERVICE AS TO THE SUFFICIENCY OF ANY REPRESENTATION. THE ABSENCE OF DATA ICATES ONLY THAT THE DATA IS NOT READILY AVAILABLE TO US. ADDITIONAL SAFETY MEASURES MAY BE REQUIRED UNDER PARTICULAR OR SPTICHAL CONDITIONS OF USE. WITH REGARD TO THE MATERIALS THEMSELVES. PRINTERS' SERVICE MAKES NO WARRANTY OF ANY KIND WHATEVER. RESSED OR IMPLIED. AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

Material Safety Data Sheet
Complies with OSHA's Hazard Communication Standard 29 CFR 1910 1200

NFPA Fire 3 Health 1

SECTION! - IDENTITY AND MANUFACTURER'S INFORMA	TION	E M RIES =	Re	activity 1
Manufacturer's Name, Address The Fuller Brush Company		Great Bend KS 67	530	
Product Name: Ammoniated Glass Cleaner Chemical Family: Aqueous Blend of ammonia and solvents.		Product Number Package Size	9172	
EPA Reg. No: N/A Emergency Telephone No. Preparer Bill Dayton Date: 03/16/00	316-792-1711 Signature			
SECTION II - HAZARDOUS INGREDIENTS IDENTITY INFOR	MATION	180scul		0+01136+5110
Hazardous Components	CAS#	OSHA TWA	ACGIH TWA	Percent
Isopropyl Alcohol Isobutane *Propoxy Propoxy Butanol *Water *Ammonia	67-63-0 75-28-5 29911-28-2 7732-18-5 7664-41-7	400 ppm 1000 ppm N/A N/A 50 ppm	400 ppm 800 ppm N/A N/A 25 ppm	<7 <6 <2 <88 <1
SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTI			V Semisir	files (Sept.
No Physical Hazards Flammable Gas Combustible Flammable Aerosol Explosive	Flammable Lie P Unstable -	yrophoric	Water Rea Oxi Organic Per	dizer 🔲
-	omplete 9865)	Evaporation Rate pH:	>1 % 11 **	
Appearance and Odor. Colorless, thin liquid/characteristic a	mmonia odor		*	
SECTION IV - FIRE AND EXPLOSION HAZARD DATA		A HARRY		- 16/21 t
Flash Point (Method): Lig_102F (TOC) Flammable Limits Extinguishing Media: CO2, Dry Chemical, Foam, ABC Exting		UEL: 95		
Special Fire Keep aerosols cooled with water to prev Fighting Procedures	ent bursting.		ammagadiyadigiladi	
Unusual Fire and COMPRESSED GAS: Temperatures in Explosion Hazards: ffammable. Contents of ruptured cans c				
SECTION V - REACTIVITY DATA		a	4 7 6	
Stability Unstable Conditions to Avoid: N/A				
Incompatability Do not mix with any other materials (Materials to Avoid)				
Hazardous Decomposition With extreme heat or fire, release Products or Byproducts	s typical hydroc	arbon decompositio	n by-products.	akatanggan apampunggan perbuik
Hazardous Polymenzation May Occur Will Not C Conditions to Avoid N/A	ccur: x			
Comments *Added to comply with the Pennsylvania Worker Right to Know	Act and the Nev	v Jersey Worker and	Community Ri	ght to Know

SECTION VI - HEAL	TH HAZARI) DATA				9172
Route (s) of entry	Inhalation	x	Skin	[x]	Eye x	Ingestion
No Health Hazard Toxic Highly Toxic		productive tox Irrita Corrosio	in		Sc	ensitizer
TARGET ORGANS Lungs x Heart Kidney	Eyes Skin Prostrate		lood Liver x	Central Nervo		Mucous Membranes X Autonomic Nervous System Respiratory System X
Carcinogenicity:	None Knov	1 x av	VTP:	IARC:	OSHA R	Regulated
Medical Conditions G None Known	ieneraliy Agg	gravated by Ex	cposure			
Signs and Symptoms May cause redness a	of Exposure and imitation	e of eye or skin.	Central ne	rvous syslem e	ffects include he	adache or dizziness
Emergency and First In case of eye or skin			vith water f	or 15 minutes.	Call a physician	if irritation persists.
	case materia ater addicinerate. Fo	l is released o	r spilled: wrap in nev		spose in trash co	ontainer. Dispose of multiple units in
accordance with Loca Potential EPA Hazard						4
Steps to be taken in t	nandling and	storage		r open flame. S	Store at 40 - 90F.	Read and follow label directions.
SECTION VIII - CON	ITROL MEA	SURES		5	art diser-	
Respiratory Protectio Optional	n(Specify Ty	pe):				
	Exhaust echanical F	Recommended	Specia	I;		
Protective Gloves	Optional	7 -7 1	E	ye Protection:	Recommended	
Other Protective Clot None Required	hing and Equ	uipment				
SECTION IX - SHIP	PING INFOR	IMATION			J. 25	
DOT Proper Shipping Consumer Commodit	Name and I					
NE = Not Established N/A = Not Applicable		-			***************************************	

.



Spartan Chemical Company, Inc. Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

DAMP MOP

Product Division: Janitorial

Product Number: 3016

Spartan Chemical Company, Inc.

1110 Spartan Drive Maumee OH 43537 Product/Technical Information: 1-(800)-537-8990

Medical Emergency: 1-(888)-314-6171 (24 hours)

Chemical Leak/Spli Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Cleaning compounds, liquid, n.o.s.

NFPA Ratings:	HMIS Ratings:
Health: 1- Slight	Health: 1-Slight
Fire: 0 - Minimal	Fire: 0 - Minimal
Reactivity: 0 - Minimal	Reactivity: 0 - Minimal
	Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

-				Table Z-1-A		
Chemical Name(s)	%Wt	CAS Registry No.	TWA mg/m	STEL mg/m	CEILING mg/m ¹	NTP, IARC or OSHA Cardnogen
Nonyiphenol ethoxylate Isopropyl alcohol	1-5 1-5	9016-45-9 67-63-0	Not Established 980	Not Established 1225	Not Established Not Established	No No

SECTION III: PHYSICAL DATA

Boiling Point: 212 °F	Vapor Pressure: Not determined
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete
pH: 7.0-8.0	Specific Gravity (H,O=1): 1.00
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 4-6
Physical State: Liquid	
Appearance & Odor: Yellow liquid, lemon scent	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: > 212°F	Method Used: ASTM-D56
Flammable Limits: Not Established	Flame Extension: N/A
Extinguishing Media: Product does not support com	bustion. Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: Wear NIOSH approved self-containers with water spray.	ontained breathing apparatus and protective dothing. Cool fire-exposed
Unusual Fire & Explosive Hazards: Combustion products are toxic	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:			ry: Inhalation, Skin Contact, Eyes; Oral
Effects of Overexposure- Conditions to Avoid:	and difficulty breathing.	oms may include pain and re mptoms may include nause: cause respiratory irritat clothing. Do not swallo	dness.
Conditions Aggravated by Use:	Use of this product may aggravate pand dermatitis.		oiratory disorders including asthma
mergency & First Aid Procedur	es:		
Eyes:	Immediately flush eyes with plenty of medical attention.		
Skin:	Remove contaminated clothing. Was irritation persists. Wash contaminate	th skin thoroughly with soap ed clothing before reuse.	and water. Get medical attention if
Ingestion:	Do not Induce vomiting unless told to dilute product. Get medical attention	do so by medical personnel Do not give anything by r	Drink one or two glasses of water to nouth to an unconscious person.
Inhalation:	In case of respiratory irritation; move	e person to fresh air. Get m	nedical attention if irritation persists.
ECTION VI: REACTIVITY DATA			
Stability:	Stable	Incompatible Materia	als: Strong oxidizers
Hazardous Decomposition Products:	None known	Hazardous Polymerizati	on: Will Not Occur
Stane to be Taken in Case	CEDURES	he fleshed with plants of w	ater to canitary sewer system (If
Steps to be Taken in Case Material is Released or Spilled:	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or d). Dike and contain large sp isposal.	ater to sanitary sewer system (If ills with Inert material and transfer
Steps to be Taken in Case Material is Released or Spilled:	Small spills of one gallon or less may permitted by local sewer regulations). Dike and contain large sp isposal.	ater to sanitary sewer system (If ills with Inert material and transfer
Steps to be Taken in Case Material is Released or Spilled:	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or d Assure conformance with federal, st). Dike and contain large sp isposal.	ater to sanitary sewer system (If ills with Inert material and transfer
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection:	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or decision assure conformance with federal, statement of the second to th	b). Dike and contain large sp isposal. ate and local regulations. espiratory imitation occurs; the hemicals in Section II should	the use of a NIOSH approved respirator be considered.
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection: Ventilation:	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or decision. Assure conformance with federal, statement of the containers for recovery or decision. Assure conformance with federal, statement of the conformal formally required. However if mountainers are conditions and conformal provide good general ventilation. Local provide good general ventilation.	b). Dike and contain large sp isposal. ate and local regulations. espiratory irritation occurs; themicals in Section II should be a call exhaust ventilation may	the use of a NIOSH approved respirator be considered. be necessary for some operations.
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection: Ventilation: Protective Gloves(Specify Type):	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or decision. Assure conformance with federal, stational station in the series of the use-conditions and containers for the use-conditions and containers represented by the series of the use-condition. Lot impervious rubber or other waterproundiluted product.	 bike and contain large spisposal. ate and local regulations. espiratory imitation occurs; themicals in Section II should ocal exhaust ventilation may not gloves are recommended. 	the use of a NIOSH approved respirator be considered. be necessary for some operations. I for frequent or prolonged contact with
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection: Ventilation: Protective Gloves(Specify Type):	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or displayed to containers with federal, stational intervals of the containers of the containers and containers of the conta	b). Dike and contain large sp isposal. ate and local regulations. espiratory imitation occurs; themicals in Section II should ocal exhaust ventilation may not gloves are recommended.	the use of a NIOSH approved respirator be considered. be necessary for some operations. I for frequent or prolonged contact with
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection: Ventilation: Protective Gloves(Specify Type):	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or decision. Assure conformance with federal, stational station in the series of the use-conditions and containers for the use-conditions and containers represented by the series of the use-condition. Lot impervious rubber or other waterproundiluted product.	b). Dike and contain large sp isposal. ate and local regulations. espiratory imitation occurs; themicals in Section II should ocal exhaust ventilation may not gloves are recommended.	the use of a NIOSH approved respirator be considered. be necessary for some operations. I for frequent or prolonged contact with
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection: Ventilation: Protective Gloves(Specify Type): Eye Protection(Specify Type): Other Protective Equipment: SECTION IX: SPECIAL PRECAUTIO Precautions; Handling & Storing:	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or displayed assure conformance with federal, station in the second series of the second series and containers for the use-conditions and containers are recommended with the series of the second series of the secon	b). Dike and contain large sp isposal. ate and local regulations. ate and local regulations. Asspiratory irritation occurs; themicals in Section II should local exhaust ventilation may loof gloves are recommended then handling undiluted product guidance.	the use of a NIOSH approved respirator be considered. be necessary for some operations. d for frequent or prolonged contact with
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection: Ventilation: Protective Gloves(Specify Type): Eye Protection(Specify Type): Other Protective Equipment: SECTION IX: SPECIAL PRECAUTIO Precautions; Handling & Storing:	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or displayed assure conformance with federal, station in the second series of the second series and containers for the use-conditions and containers are recommended with the series of the second series of the secon	p. Dike and contain large sp isposal. ate and local regulations. espiratory irritation occurs; themicals in Section II should ocal exhaust ventilation may not gloves are recommended are handling undiluted product guidance.	the use of a NIOSH approved respirator be considered. be necessary for some operations. I for frequent or prolonged contact with
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection: Ventilation: Protective Gloves(Specify Type): Eye Protection(Specify Type): Other Protective Equipment: SECTION IX: SPECIAL PRECAUTIO Precautions; Handling & Storing: Other Precautions:	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or december of the same conformance with federal, stated in the same conformation in t	p. Dike and contain large sp isposal. ate and local regulations. espiratory irritation occurs; themicals in Section II should ocal exhaust ventilation may not gloves are recommended are handling undiluted product guidance.	the use of a NIOSH approved respirator be considered. be necessary for some operations. d for frequent or prolonged contact with
Steps to be Taken in Case Material is Released or Spilled: Waste Disposal Method: ECTION VIII: SPECIAL PROTECT: Respiratory Protection: Ventilation: Protective Gloves(Specify Type): Gther Protective Equipment: ECTION IX: SPECIAL PRECAUTION Precautions; Handling & Storing:	Small spills of one gallon or less may permitted by local sewer regulations liquid to containers for recovery or decisions. Assure conformance with federal, stational state of the containers for recovery or decisional state of the containers. However if must able for the use-conditions and contained good general ventilation. Local Impervious rubber or other waterproundiluted product. Splash goggles are recommended with See 29 CFR 1910.132-138 for further than the contained groundiluters. Keep out of reach of children. California Proposition 65: WARNING: This product contains to cancer or birth defects or other representations.	pisposal. ate and local regulations. ate and local regulations. aspiratory imitation occurs; themicals in Section II should ocal exhaust ventilation may not gloves are recommended are handling undiluted product regulations.	the use of a NIOSH approved respirator be considered. be necessary for some operations. d for frequent or prolonged contact with lect.

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.

MATERIAL DATA SAFETY SHEET

1					,
Pections	ired Concernate - Product #3500		NATURE LANGE	PER PROPERTY NAME OF THE PERSON	Assert Market and Company
Manufacturer:	Fencel, Inc.	the state of the s	y Telephone; i-		
Andress:	र्वेक्टाड संकृत्यन्त्र । ५१	leformatio	n Telephone;6	VI CAT 18 PR	
	Platfeville, VAI 538: 8 USA	Date Press	met 01-01-01	A53454952	MSDS 1080
Section 6 - Haz	ardous Ingredients loundly inform	and or resident		Printer of the second	
Hazardous Com	ponents	OSHA	ACCH	Other limits	建 15742 医乳体
(Specific Chemi	cal identity; Common Name(sj)	PEL	TLV		% (optional)
DERZALKONILA	CHLORIDE CAS #8001-54-5	NCNE	INCHE	recommended NA	
	s et Chan es Charactereses ,			1	-01%
Boiling Point. 2		Har State W	Hart Age		
Vapor Pressure		Special Gr	*VITY (+120)=1: (ACL CELEBONED	
	Ar = 1): NOT CETERNINED.	Melting Pol			
Solubility in V/a	THE PART OF THE PROPERTY OF	FASDOLSTO	π Rate (Butyl A	cetate = 1):1301 DETE	FUZINED.
	Contectoriuss nout with	Mile Wall Value a			
opposition and	COU. COLDACESS ELDED WITH	* NO DISCERI	VABLE OF CR		
present negline	सराम्बर्गेक हो। समस्य प्राप्त			or so a commen	THE PROPERTY OF THE PARTY OF TH
CHESOL & CASH GROWN	ston naddi: MV	Filtrera ble	LETTING ST	LECTO	UEL NA
Trunguishing M	AGUE THIS IS A NONFULINVABLE	AQUEOUS SO	LUTICH.		
pecal Fire Figh	tang Procedures: NA				
	Explosion Hazards; HJA				
ection V: Resc	thirty Calls 7 To 1977		Day Broad of a branch		
tability	/Unstable:NO	Contidions			FRED NON-REACTIVE
		-	OTTI SHOPPOR	ITTUDE I IS CONSID	EHED NON-HEACTIVE
		JAND STARK	E HINDED MODI	441 0040000000	
	Stable: YES	AND STABL	E UNDER NOR	AAL CONDITIONS OF	STORAGE AND USAGE.
concession.	Stable: YES	AND STABL	E UNIDER NOR!	MAL CONDITIONS OF	STORAGE AND USAGE
rcompatibility (Vaterials to Avoid): NCNE KWCW	AND STABL	E UNDER NOR!	AAL CONDITIONS OF	STORAGE AND USAGE
azardous Deco	Materials to Avoid): NCNE RVC/A	AND STABL	E UNDER NOR!	AAL CONDITIONS OF	STORAGE AND USAGE.
lazardous Deco	Materials to Avoid): NCKE KNCW reposition or Byproducts: NCME May Occur: NO	AND STABL	E UNDER YOR	AAL CONDITIONS OF	STORAGE AND USAGE.
lazardous Deco lazardous olymorization	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE Nay Occur: NO Will Not Occur: YES	Conditions	E UNDER NOR!	AAL CONDITIONS OF	
azardous Deco azardous olymerization ecilory V - Hear	Materials to Avoid): NCNE RVCAN rposition or Byproducts: NCNE Nay Occur: NO Will Not Occur: YES Hazard Data = 1/4/45	Canditions	E UNCER NOR!	AAL CONDITIONS OF	
azardous Deco lazardous olymerization ecilon(VIHead oute(s) of Entry	Materials to Avoid): NCNE RVCAN rposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Material Data: YES Inhalation 7: NO Sign 7: NO Inc	Conditions	E UNCER NOR!	AAL CONDITIONS OF	
azardous Deco azardous olymerization ecilony I _ Head oute(s) of Entry callh Hazards ()	Materials to Avoid): NCNE RVCAN rposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Material Data: 7 Units Inhalation 7: NO Stan 7: NO Ing	Conditions Conditions Conditions Conditions	O Avoid: NONE	AAL CONDITIONS OF	
azardous Deco azardous olymerization ecilon, VI., Head oute(s) of Entry ceilth Hazards (i arcinogenicity:	Materials to Avoid): NCNE RVCAN rposition or Byproducts: NCNE Nay Occur: NO Will Not Occur: YES Hazard Data: Yures: Yur	Conditions Conditions Conditions Conditions	O Avoid: NONE	AAL CONDITIONS OF	
azardous Deco azardous olymerization ecilon, VI., Head oute(s) of Entry cellh Hazards () archogeneity; gns and Sympt	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Material Data; 7 (1) (1) (1) (1) Inhaldion 7: NO Stan 7: NO Ing Acute and Chronicj: INGESTON (1) NTP 7: NO DATE Monographs 7: Date of Exposure: NA	Conditions Conditions Conditions Conditions Conditions Conditions Conditions Conditions Conditions	O Avoid: NONE	AAL CONDITIONS OF	
azardous Deco lazardous ohymerization ecilon, VI., Head oute(s) of Entry onlih Hazards (i archogenicity; igns and Sympi edical Condition	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Material Data	Conditions Condit	O Avoid: NONE	AL CONDITIONS OF	CASTRIC HRI ATICY
azardous Deco lazardous olymerization ecilon, W., Head oute(s) of Entry ealth Hazards (i archogeneity; igns and Sympt edical Condition mergency First.	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhalation 7: NO Skin 7: NO log Acute and Chronicj: INGESTON (Conditions Condit	O Avoid: NONE N EXCESS OF guilled?: NO	AAL CONDITIONS OF	E CASTRIC THEFT AT ICH
azardous Deco Azardous ohymerization ecilon, W., Head oute(s) of Entry cellh Hazards () archogeneity: gas and Sympt edical Condition mergency First CLUMES OF TH	Materials to Avoid): NCNE RVC/A reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhalation 7: NO Stim 7: NO Ing Acute and Chronicj: INGESTON (NTP 7: NO DATE Monographs 7: Inhalation 7: NO Stim 7: NO Ing Acute and Chronicj: INGESTON (NTP 7: NO DATE Monographs 7: Ormal of Exposure: NA Ins Generally Aggravated by Expo Add Procedures: NOTES TO PHY E SCLUTION, INDUCE VOIGITING	Conditions Condit	O AVOID: NONE WEXCESS OF GUILLIED TO	AL CONDITIONS OF	CASTRIC THREATICA
azardous Deco lazardous ohymerization ecilon, W., Head oute(s) of Entry onlih Hazards () archogenicity; gas and Sympt edical Condition mergency First CLUMES OF THE	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhalation 7: NO Stim 7: NO Ing Acute and Chronicj: INGESTON I NTP 7: NO DATE Monographs 7: orms of Exposure: NA ins Generally Aggravated by Expo Add Procedures: NOTES TO PHY E SCLUTION, INDUCE VOMITING	Conditions Condit	O AVOID: NONE WE EXCESS OF GUILLIE OF NO E UNITED THE PATIEN	AL CONDITIONS OF LUCES TO A CAUS LUCERS VAY CAUS ENT OF RAPID FACES T FOR GASTRIC RRIT	E CASTRIC THREATICH TION OF LANCE (ATION)
azardous Deco azardous ohymerization occion, VI., Head oute(s) of Entry cellih Hazards () arcinogenicity: gas and Sympt edical Condition mergency First CLUMES OF THE ICCOM, VII., Prac	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhalation 7: NO Stim 7: NO Ing Acute and Chronicj: INGESTON I NTP 7: NO DATE Monographs 7: orms of Exposure: NA ins Generally Aggravated by Expo Add Procedures: NOTES TO PHY E SCLUTION, INDUCE VOMITING	Conditions Condit	O AVOID: NONE WE EXCESS OF GUILLIE OF NO E UNITED THE PATIEN	AL CONDITIONS OF LUCES TO A CAUS LUCERS VAY CAUS ENT OF RAPID FACES T FOR GASTRIC RRIT	E CASTRIC THREATICH TION OF LANCE (ATION)
azardous Deco azardous ohymerization ecilon, VI., Head oute(s) of Entry ealth Hazards (i arcinogenicity: igns and Sympti edical Condition nergancy First CLUMES OF THE chor, VII., Frace aps to Be Taker	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Skin 7: NO Ing Inhabition 8: NO Ing Inhabition 9: N	Conditions Condit	O AVOID: NONE WE EXCESS OF GUILLIE OF NO E UNITED THE PATIEN	AL CONDITIONS OF LUCES TO A CAUS LUCERS VAY CAUS ENT OF RAPID FACES T FOR GASTRIC RRIT	E CASTRIC THREATICH TION OF LANCE (ATION)
azardous Deco azardous ohymerization ecilon, VI., Head oute(s) of Entry onlih Hazards (i arcinogenicity: igns and Sympti edical Condition mergancy First DLUMES OF THE cubor, VII., Frac aps to Be Taker AZARDOUS WA	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Stim 7: NO Ing Inhabition 8: NO Ing Inhabition 9: N	Conditions Condit	O AVOID: NONE WE EXCESS OF GUILLIE OF NO E UNITED THE PATIEN	AL CONDITIONS OF LUCES TO A CAUS LUCERS VAY CAUS ENT OF RAPID FACES T FOR GASTRIC RRIT	E CASTRIC THREATICH TION OF LANCE (ATION)
azardous Deco azardous ohymerization ecilentii Head oute(s) of Entry ealth Hazards (i arcinogenicity: gns and Sympt edical Condition mergancy First CLUMES OF THE ECHON, VII. Frac eps to Be Taker AZARDOUS WA este Disposal N	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhalation 7: NO Stin 7: NO Ing Acute and Chronicj: INGESTON NTP 7: NO DARC Monographs 7: Ioma of Exposure: NA Ins Generally Aggravated by Expo Add Procedures: NOTES TO PHY E SCLUTION, INCUCE VOMITING In Case Material is Released or STE.	Conditions Condit	O AVOID: NONE WEXCESS OF BUSINESS: NO E UP RELY EU HE PATIEN HEAREA WITH	LITERS VAY CAUSE THE OF RAPID RESS TOR GASTRIC FRINT VATER THE SOLUTION	TON OF LARGE ATION TON OF LARGE ATION TON OF REAL ENGINE TON
azardous Deco lazardous ohymerization ecilon, W., Head oute(s) of Entry onlih Hazards (i arcinogenicity; igns and Sympti edical Condition mergency First CLUMES OF THE CUON, W. Frace eps to Be Taker AZARDOUS W.A. esta Chisposal N. ecautions to Be	Materials to Avoid): NCNE RVC/A reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhalation 7: NO Stim 7: NO Ing Inhalation 7: NO Stim 7: NO Ing Acute and Chronicj: INGESTON NTP 7: NO DARC Monographs 7: Inhalation 7: NO Stim 7: NO Ing Acute and Chronicj: INGESTON NTP 7: NO DARC Monographs 7: Inhalation 1: NO Stim 7: NO Ing Acute and Chronicj: INGESTON NTP 7: NO DARC Monographs 7: Inhalation 1: NO DARC Monographs 7: Inhalation 7: NO DARC Monographs 7: Inhalation 8: Inhalation 8: Inhalation 9: Inhalation 8: Inhalation 9: Inhalation 8: Inhalation 9: Inhalation 8: Inhalation 9: Inhalation 9: Inhalation 9: Inhalat	Conditions Condit	O AVOID: NONE WEXCESS OF BUSINESS: NO E UP RELY EU HE PATIEN HEAREA WITH	LITERS VAY CAUSE THE OF RAPID RESS TOR GASTRIC FRINT VATER THE SOLUTION	TON OF LARGE ATION TON OF LARGE ATION TON OF REAL ENGINE TON
azardous Deco lazardous ohymerization ecilon, W., Head oute(s) of Entry onlih Hazards (i arcinogenicity: igns and Sympt edical Condition mergancy First CLUMES OF THE ECHOT, VII., Frace eps to Be Taker AZARDOUS WA asse Disposal N ecautions to Be OFF (43°C) FOR	Materials to Avoid): NCNE RVC/A riposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhalation 7: NO Stin 7: NO Ing Acute and Chronicj: INGESTON NTP 7: NO DARC Monographs 7: Ioma of Exposure: NA Ins Generally Aggravated by Expo Add Procedures: NOTES TO PHY E SCLUTION, INCUCE VOMITING Intil Case Material is Released or STE, Intil Case Material is Released or STE	Conditions Condit	O AVOID: NONE WEXCESS OF BUSINESS: NO E UP RELY EU HE PATIEN HEAREA WITH	LITERS VAY CAUSE THE OF RAPID RESS TOR GASTRIC FRINT VATER THE SOLUTION	TON OF LARGE ATION TON OF LARGE ATION TON OF REAL ENGINE TON
azardous Deco lazardous ohymerization action, W., Head oute(s) of Entry cellih Hazards (i arcinogenicity: igns and Sympti idical Condition mergency First. OLUMES OF THE COUNTY First aps to Be Taker AZARDOUS WA este Chisposal N ecautions to Be OFF (40°C) FOR her Procaulion.	Materials to Avoid): NCNE RVC/A riposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Stim 7: NO Ing Inhabition 7: NO Ing Inhabition 8: NO Ing Inhabition 9: NO Ing Inhabition 7: NO Ing Inhabit	Conditions Condit	O AVOID: NONE WE EXCESS OF BUSINEST: NO E UN RELY EU HE PATIEN H AREA WITH T	AAL CONDITIONS OF LITERS VAY CAUS ENT OF RAPID IC. TO TEMPERATURE:	E CASTRIC THREATICH TION OF LARCE ATION. THE NOT RERA
azardous Deco lazardous ohymerization action, W., Head oute(s) of Entry cellih Hazards (i arcinogenicity: igns and Sympti idical Condition mergency First. OLUMES OF THE COUNTY First aps to Be Taker AZARDOUS WA este Chisposal N ecautions to Be OFF (40°C) FOR her Procaulion.	Materials to Avoid): NCNE RVC/A riposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Stim 7: NO Ing Inhabition 7: NO Ing Inhabition 8: NO Ing Inhabition 9: NO Ing Inhabition 7: NO Ing Inhabit	Conditions Condit	O AVOID: NONE WE EXCESS OF BUSINEST: NO E UN RELY EU HE PATIEN H AREA WITH T	AAL CONDITIONS OF LITERS VAY CAUS ENT OF RAPID IC. TO TEMPERATURE:	E CASTRIC THREATICH TION OF LARCE ATION. THE NOT RERA
lazardous Deco lazardous ohymerization ecilon, W. Head oute(s) of Entry ealth Hazards (i arcinogenicity: igns and Symple edical Condition mergency First CLUMES OF THE econy, W. Free aps to Be Yaker AZARDOUS WA este Disposal N ecautions to Be OFF (40°C) FOR her Procaution econy W. Cond espiratory Prote econy Protection	Materials to Avoid): NCNE RVCA imposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Stan 7: NO Ing Inhabition 8: NO Ing Inhabition 9: NO	Conditions Condit	O AVOID: NONE WE EXCESS OF BUSINEST: NO E UN RELY EU HE PATIEN H AREA WITH T	AAL CONDITIONS OF LITERS VAY CAUS ENT OF RAPID IC. TO TEMPERATURE:	E CASTRIC THREATICH TION OF LARCE ATION. THE NOT RERA
azardous Deco lazardous olymerization ecilon, W. Head oute(s) of Entry ealth Hazards (i arcinopenioty: igns and Symple edical Condition mergency First. CLUMES OF THE ECOUNTY First AZARDOUS WA este Disposal N ecautions to Be off (40°C) FOR her Procaution ispiratory Prote inspiratory Prote	Materials to Avoid): NCNE RVCA Tropision or Byproducts: TiCNE May Occur: NO Will Not Occur: YES In Hazard Data: Trues; Toy, Inhabition 7: NO Stan 7: NO Ing Acute and Chronicj: INGESTON NTP7: NO DARC Monographs 7: Inhabition 7: NO Stan 7: NO Ing Acute and Chronicj: INGESTON NTP7: NO DARC Monographs 7: Inhabition 7: NO Stan 7: NO Ing Acute and Chronicj: INGESTON NTP7: NO DARC Monographs 7: Inhabition 7: NO Stan 7: NO Ing Acute and Chronicj: INGESTON Inhabition 8: NO Ing Indiana Inhabiting and Storing: Inhabiting and Storing and Sto	Conditions Condit	O AVOID: NONE WE EXCESS OF BUSINEST: NO E UN RELY EU HE PATIEN H AREA WITH T	AAL CONDITIONS OF LITERS VAY CAUS ENT OF RAPID IC. TO TEMPERATURE:	E CASTRIC THREATICH TION OF LARCE ATION. THE NOT RERA
lazardous Deco lazardous objete (M. Head oule(s) of Entry cellin Hazards (i) arcinogenicity: igns and Symple idical Condition mergency First CLUMES OF THE county (M. Free aps to Be Yaker AZARDOUS VAX aste Chaposal N ecautions to Be OFF (40°C) FOR her Procaulion ispiratory Prote inhibition	Materials to Avoid): NCNE RVCA imposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Stim 7: NO Ing Inhabition 7: NO Ing Inhabition 7: NO Ing Inhabition 8: NO Ing Inhabition 8: NO Ing Inhabition 8: NO Ing Inhabition 9: NO Ing Inhabition 7: NO In	Conditions Condit	O AVOID: NONE IN EXCESS OF BUSINEST: NO E UNLIGHT EVILLE THE PATIEN H AREA WITH ZE CR EXPOS	AL CONDITIONS OF LITERS VAY CAUSE THO PRAPID FACES THOSE CASTRIC RRITE CATER THE SOLUTION TO TEMPERATURE:	E CASTRIC JIHI ATICH TION OF LARGE ATION INS NOT RCHA SIN EXCESS CF
azardous Deco lazardous ohymerization ecilon, W., Head oute(s) of Entry cellin Hazards (i arcinogenicity: igns and Sympti edical Condition mergency First. OLUMES OF THE county W. Free aps to Be Taker AZARDOUS W.A. este Crisposal N ecautions to Be OFF (40°C) FOR her Procaulion coon Viti = Condition ispiratory Prote notation Otective Choves	Materials to Avoid): NCNE RVCAN riposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Stin 7: NO Ing Inhabition 8: NA Inhabition 8: NA Inhabition 8: NA Inhabition 8: NA Inhabition 9: NO Ing Inhabition 7: NO Ing	Conditions Condit	O AVOID: NONE WEXCESS OF GUALLED F. NO EUR PALEY EV THE PAREN AL CONDITIONS OF LITERS WAY CAUSE TO FRANCE FROM ATER. THE SOLUTION TO TEMPERATURE: Special: If A Other: NA	TON OF LARCE ATION. IN EXCESS CF	
azardous Deco azardous olymerization ecilon, VI., Head oute(s) of Entry ealth Hazards (i arcinogenicity: gas and Sympti edical Condition mergancy First. DLUMES OF THE econy, VII., Frace aps to Be Taker AZARDOUS WA esta Disposal N ecautions to Be OFF (40°C) FOR her Procaution coors VIII = Con- spiratory Prote noticon Otective Gloves CGESTED WHE	Materials to Avoid): NCNE RVCAN reposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Stin 7: NO Ing Inhabition 8: NO Ing Inhabition 9: NO Ing Inhabition 7: NO Ing Inhabit	Conditions Condit	O AVOID: NONE WEXCESS OF GUALLED F. NO EUR PALLY EV THE PAREN H AREA WITH ZE CR EXPOS	AL CONDITIONS OF LITERS WAY CAUSE TO FRANCE FROM ATER. THE SOLUTION TO TEMPERATURE: Special: If A Other: NA	TON OF LARCE ATION. IN EXCESS CF
azardous Deco azardous olymerization ecilon, VI., Head oute(s) of Entry ealth Hazards (i arcinogenicity: igns and Sympti edical Condition mergancy First. DLUMES OF THE econy, VII., Frace aps to Be Taker AZARDOUS WA esta Disposal N ecautions to Be OFF (40°C) FOR her Procaution coors VIII = Con- spiratory Prote notation Otective Gloves	Materials to Avoid): NCNE RVCAN riposition or Byproducts: NCNE May Occur: NO Will Not Occur: YES Inhabition 7: NO Stin 7: NO Ing Inhabition 8: NO Ing Inhabition 9: NO Ing Inhabition 7: NO I	Conditions Condit	O AVOID: NONE WEXCESS OF GUALLED F. NO EUR PALLY EV THE PAREN H AREA WITH ZE CR EXPOS	AL CONDITIONS OF LITERS WAY CAUSE TO FRANCE FROM ATER. THE SOLUTION TO TEMPERATURE: Special: If A Other: NA	TON OF LARCE ATION. IN EXCESS CF

Household Products Database



Home

Products

Ingredients

MSDS

Browse by Categories

Browse Alphabetically

Search

Brand Information

Brand Name: Guardsman AFTA Spot Remover

Form: liquid

Product Category: Home inside >> Furniture >> spot remover

Home inside >> Cleaner >> furniture

Home inside >> Cleaner >> carpet/upholstery

Customer Service No.: 800-253-3957

Date Entered: 1997-05-01

Related Items: Products with similar usage in this database

Manufacturer

Manufacturer: Guardsman Products, Inc.

Div., Guardsman Chemicals

Address: 4999 36th Street City: Grand Rapids

State: MI

Zip Code: 49512

Telephone Number: 616-940-2900 Toll Free Number: 800-253-3957 Date info Verifled: 2003-01-01

Related Items: Products by this manufacturer

Health Effects

The following information (Health Effects, Handling/Disposal, and Ingredients) is taken from the product tabel and/or the <u>Material Safety Data Sheet (MSDS)</u> prepared by the manufacturer. The National Library of Medicine does not evaluate information from the product label or the Material Safety Data Sheet.

Warning from CAUTION, FLAMMABLE MIXTURE NYFDC of A No. 4705, KEEP AWAY Product Label: FROM HEAT OR FLAME: Contains petroleum distillates. May affect the

brain or nervous system causing dizziness, headache or nausea. Causes irritation. Avoid frequent or prolonged skin contact or breathing of vapors. Use adequate ventilation. KEEP OUT OF REACH OF CHILDREN, FIRST AID: If contact occurs, remove contaminated clothing from skin. Flush skin with soap and water. If affected by vapor, get fresh air immediately. Intentional misuse by deliberately concentrating and inhaling the contents

may be harmful or fatal. Bar Code: 0-41758-04005-4

Acute Health Effects: From MSDS

May cause eye or skin irritation. Inhalation may cause CNS depression, it adache, nauscal cto Ingostion and assessment discomfort.

diarrhea, nausea, vomiting. Protongeo or repeated occupational overexposure to solvents may cause permanent brain and nervous system damage. Intentional misuse by deliberate concentration and

inhalation of contents may be harmful or fatal.

Medical Conditions Generally Aggravated by Exposure: None listed

Chronic Health Effects: MSDS: See Acute Health Effects.

Carcinogenicity: MSDS does not address the subject of carcinogenicity.

Health Rating: 2
Elammability Rating: 3
Reactivity Rating: 0

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe;

N = No information provided by manufacturer; * = Chronic Health Hazard

MSDS Date: 2000-08-31

Handling/Disposal

Handling: MSDS: Keep away from excessive heat, sparks, and flame. Store in a

clean, dry area. Keep product away from moisture and close containers when not in use. Avoid breathing vapors. Intentional misuse by deliberately concentrating or inhaling vapors may be harmful or fatal. Avoid repeated or prolonged contact with skin. Remove contaminated clothing and launder before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Wash skin thoroughly with soap

and water after contact. Keep out of reach of children.

Disposal: MSDS: Small amounts to landfill if local, state and federal regulations

permit.

Ingredients from MSDS/Label

Chemical	CAS No / Unique ID	Percent
Xylene (mixed isomers)	001330-20-7	10-25
Ligroin	008032-32-4	10-25
Stoddard solvent	008052-41-3	60-70

Note Brand names are trademarks of their respective holders.

Information is extracted from Consumer Product Information Database ©2004 by DeLina Associates, All rights reserved

About | FAO | Product Recalls | Help | Glossary | Contact Us | Other Resources | Home

Specialized Information Services

8600 Rockville Pike, Bethesda, MD 20894

National Institutes of Health, Department of Health & Human Services

Copyright, Privacy, Freedom of Information Act, Accessibility

Customer Service tehip@teh nim nih gov

Last updated May 12, 2004



LPS LABORATORIES, INC. MSDS MATERIAL SAFETY DATA SHEET

Section 1 • Product Identification and Use

Manufacturer's Name:

LPS Laboratories, Inc.

Street Address: 4647 Hugh Howell Road

City, State, Zip:

Tucker, GA 30085-5052

Telephone Number: 770-934-7800

Emergency Telephone Number:

1-800-424-9300 Chemtrec Outside U.S. (703) 527-3887

Hazardous Materials Description and

proper shipping name (49 CFR 172.101): NMFC 50093 SUB 2 BRL/BXS CL55

Compound, Boiler, Preserving Liquid

CONSUMER COMMODITY ORM-D

Trade Name:

LPS MR-650 Food Grade Mold Release

Chemical Family: Blended Compound

Part Numbers:

01716

TSCA Inventory:

All of the ingredients are listed on the TSCA inventory.

HMIS Labeling:

Health:

Flammability: 3 Reactivity: 0

Section 2 • Hazard	dous Ingre	dlents / Identity	Information	
			ACGIH	OTHER
CAS Numbers	%WW	OSHA PEL	TLV	LIMITS
107-83-5	70-80	500 ppm	500 ppm	1,000 ppm STEL
110-54-3	1-2	50 ppm	50 ppm	None
68476-85-7	10-20	1 000 nnm	N.E.	None

Section 3 • Physical / Chemical Characteristics

Boiling point: (F*):

Propane/Isobulane

Ingredients **Isohexane** n-Hexane

Specific gravity (H20 = 1):

0.659

Vapor pressure (mmHg) @100°F:

141°F 352

Percent volatile by volume (%):

96

Vapor density (Air = 1)

арргох, 3.0

Evaporation rate (Ethyl Ether = 1):

<1.0

Solubility in water:

Nil

Appearance and odor: Clear, colorless liquid with mild odor.

Section 4 • Fire and Explosion Hazard

Flash point (method used): NE (aerosol)

Flammable limits (of diluent):

LEL N.E.

UEL N.E.

Extinguishing media: Foam, dry chemical, carbon dioxide.

Special fire fighting procedure: None.

Unusual fire and explosive hazards: Intensive heat created by fire will cause aerosols to burst.

Section 5 • Health Hazard Data

Primary route(s) of entry: Inhalation, eyes, skin. Health hezard/effects of over exposure:

Inhalation: Headache, dizziness, nausea, anesthetic effects, and other symptoms of central nervous system

depression. May imitate mucosal tissue at high concentrations.

Eyes:

Vapor and liquid may cause imitation.

Skin:

Repeated or prolonged contact may cause drying and defatting of skin.

Ingestion:

Low order of oral toxicity; however, minute amount aspirated into lungs during ingestion may cause

severe pulmonary injury. Can also cause imitation of the digestive tract.

N.E. = Not established N.A. = Not applicable

Section 5 • Health Hazard Data

Medical conditions aggravated by exposure: Pre-existing eye, skin and respiratory disorders may be aggravated.

Chemicals listed as potential carcinogen:

NTP: No

IARC: No

OSHA: No

Emergency and first aid procedures:

Inhalation: Move to fresh air and contact physician. Administer oxygen if breathing is difficult.

Eves:

Flush eyes with plenty of water and contact a physician.

Skin:

Wash with soap and water, apply medicated skin cream.

ingestion:

Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration

of liquid into lungs. Get medical attention immediately.

Section 6 • Reactivity Data

Stability: Stable

Conditions to avoid:

Open flames, electric arcs and other hot surfaces which may

cause thermal decomposition.

incompatibility (Materials to avoid):

Oxygen, Oxidizing agents.

Hazardous decomposition products:

Carbon monoxide, carbon dioxide, if burned.

Hazardous polymerization:

Will not occur.

Section 7 • Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Ventilate area by opening doors and windows. Remove ignition sources. Remove leaking container and transfer remaining product to another vessel. Prevent product from going into sewers and water sources by diking or Impounding. Using appropriate safety equipment, mop up or soak up with absorbent material, such as sand or clay

Weste disposal methods: Dispose of in accordance with local, state and federal regulations for flammable hydrocarbons,

RCRA Hazardous Waste No.: This material has the RCRA characteristic of ignitability and if discarded in its purchased form, it would have the hazardous waste number 0001.

CERCLA Reportable Quantity: 5,000 lbs.

SARA TITLE III Chemicals: Yes, CAS # 110-54-3.

Precautions to be taken in handling and storage: Store aerosols below 120°F and above 32°F. Store away from ignition sources and avoid breathing vapors.

Section 8 • Control Measures

Respiratory Protection: None required if good ventilation is maintained. For enclosed areas, use NIOSH approved organic vapor cartridge respirator or self-contained breathing apparatus.

Ventilation: Local exhaust is usually adequate. However, mechanical ventilation should be used when spraying in enclosed areas. Vapor concentration should be minimized as much as possible.

Protective gloves: Use solvent resistant gloves for liquid handling.

Eye protection: For spraying or splashing of solvent, use face shield or goggles.

Other protective equipment: None.

Work/hygienic practices: Wash hands with soap and water after use and/or before breaks, funch and at the end of work periods. Remove contaminated clothing and launder before rause.

Section 9 • Preparation Date of MSDS

The foregoing technical information and recommendations are compiled from sources that are believed to be accurate and reliable. However, they are supplied without warranty or guarantee of any kind either expressed or implied. The purchaser is responsible for selecting and determining the suitability of products for purchaser's particular needs and we disclaim any responsibility for improper applications or misuse of our products in any manner whatsoever.

December 5, 1996

John Roudebush, Director of Research and Development

LPS Laboratories, Inc.

Form # 2646

MSDS LPS MR-650 Food Grade Mold Release





SAFETY DATA SHEET LPS Precision Clean Ready-to-Use

Revision 2

Revision Date 28/05/05

Supercedes: 25/10/00

Section 1 – Identification of the Preparation and the Company

Product Name:

LPS PRECISION CLEAN READY-TO-USE

Part Numbers:

M27800

Product Use:

A read-to-use alkaline water-based cleaner designed to remove oil and grimy

residues from hard surfaces.

Supplier:

Geocel Limited, Western Wood Way, Langage Science Park, Plympton.

Plymouth, PL7 5BG United Kingdom

TEL:

+44 (0)1752 202060

FAX:

+44 (0)1752 334384

Manufacturer:

LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA 30085 (U.S.A.)

http://www.lpslabs.com

Section 2 - Compositon / Information on Ingredients

INGREDIENT NAME

EC No.

CASRN

Classification

Weight Percent

Disodium metasilicate

229-912-9

6834-92-0

[C] R34 [Xi] R37

252-104-2

34590-94-8

[Xi] R36

1-2%

Dipropylene glycol monomethyl

ether

Section 3 - Hazards Identification

Human and **Environmental** This preparation is not considered hazardous according to European Union Directives 67/548/EEC and 1999/45/EC.

Hazards

Section 4 - First Aid Measures

Eyes:

Liquid contact will cause irritation. Flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation persists.

Skin:

Wash with soap and water. Get medical attention if irritation persists.

Inhalation:

If spray mist is Inhaled, remove to fresh air. If breathing is difficult, give oxygen and get medical

attention.

ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended

Seek medical attention immediately.



SAFETY DATA SHEET LPS Precision Clean Ready-to-Use

Revision 2 .

Revision Date 28/05/05

Supercedes: 25/10/00

Section 5 - Fire Fighting Measures

Flash point:

None

Extinguishing media:

Not applicable

Fire-fighting procedures: No special requirements.

Section 6 - Accidental Release Measures

Precautions to protect

environment:

Do not allow entry into drains or watercourses. If this occurs inform the local authorities at

once

Spill Cleanup methods:

Use an absorbent material, eg sand, to mop up residues. See section 13 'Disposal

Considerations'.

Section 7 - Handling and Storage

Handling procedures;

Use appropriate personal protective equipment and avoid direct contact with skin.

Storage Precautions:

Keep in original container at ambient temperatures. Do not allow product to freeze

Keep container closed. Keep out of the reach of children

Section 8 – Exposure Controls / Personal Protection

Component	CASRN	UK LT EXP (8 hrs.)	UK ST EXP (15 min.)	ACGIH TLV	ACGIH STEL
Disodium metasilicate	6834-92-0	Not Established	Not Established	Not Established	Not Established
Dipropylene glycol monomethyl ether	34590-94-8	50 ppm(Sk.)	Not Established	100 ppm	150 ppm

EngineerIng measures

Normal room ventilation is usually adequate. If necessary, use appropriate local exhaust

ventilation to keep exposures below the regulated limits.

Personal protective equipment

Eye protection

Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain

and emergency shower facilities are recommended.

Hand protection

Use protective gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves. Take into consideration the specific local conditions under which the product

is used, such as the danger of cuts, abrasion and the contact time.

Respiratory protection

Typical use of this product under normal conditions does not require the use of respiratory protection.

Hyglene measures

Do not soak clothing with this product and continue working without immediately changing clothes and washing skin. Do not reuse clothing until it has been laundered. An eyewash

fountain should be available in the work area.

Environmental exposure controls

Soak up puddles of product with absorbent material and dispose of according to local

regulations.



SAFETY DATA SHEET LPS Precision Clean Ready-to-Use

Revision 2

Revision Date 28/05/05

Supercedes: 25/10/00

Section 9 – Physical / Chemical Properties						
Appearance:	Liquid.	Colour:	Turquoise			
Odour/Taste:	Citrus.	Vapour Pressure:	-3 kPa @ (25 °C)			
Solubility Description:	100% in water	Evaporation Rate:	1 (H ₂ O=1)			
Boiling Point (°C):	100 @ 101 kPa	Flash Point (°C):	None			
Specific Gravity (Water=1):	1.01-1.02 @ 20 °C	Flash Point Method:	Tag-Closed Cup.			
Vapour Density (air=1):	>1	Auto Ignition Temperature (°C):	none			
V.O.C. Content:	12.6 g/L	Partition Coefficient (octanol/water):	> 1.0			
Flammable limits (estimated):	LOWER: N.E. UPPER: N.E.	Viscosity:	<3 mm²/second @ 25°C			
pH:	12.5					
	Section 10 - Che	mical Stability & Reac	tivity			
Chemical Stability:	Product is stable under recommended storage conditions.					
Conditions to Avoid:	Temperatures below	Temperatures below 0°C.				
Incompatibility:	Reactive or incompa	tible with finely divided metal	ls (such as magnesium "dust").			

Section 11 - Toxicological Information

A: General Product Information

Hazardous Decomposition: Will not occur.

Will not occur.

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

B: Component Analysis

Hazardous Polymerization:

Ingredients	CASRN	LC-50	LD-50
at a diamental and	6834-92-0	Not	Oral LD50 Rat: 1153 mg/kg; Oral LD50 Mouse: 770 mg/kg
Disodium metasilicate		established	
Dipropylene glycol	34590-94-8	Not	Oral LD50 Rat: 5400 µL/kg; Dermal LD50 Rabbit: 10 mL/kg
monomethyl ether	i	established	



SAFETY DATA SHEET LPS Precision Clean Ready-to-Use

Revision 2

Revision Date 28/05/05

Supercedes: 25/10/00

Section 12 - Ecological Information

General Product Information

No ecotoxicity information is available for the product. Keep out of surface waters, sewers, and water supplies.

Component Information
Acute Aquatic Toxicity

Component	CASRN	Test	Species	Results
Disastinas establisata	6834-92-0	48-hour EC ₅₀	Daphnia magna	4857 mg of 35% solution per litre
Disodium metasilicate		96-hour EC ₅₀	Brachydanio rerio	3185 mg of 35% solution per litre at pH 10.1
	34590-94-8	48-hour EC ₅₀	Daphnia magna	1919 mg/L
Dipropylene glycol monomethyl ether		96-hour EC ₅₀	Pimephales promelas	>10,000 mg/L

Section 13 - Disposal Considerations

Disposal: Waste must be disposed of in accordance with national and local environmental control regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate.

Section 14 - Transportation Information

This product is not classified for the purposes of transportation.

Section 15 - Regulatory information

Labels for Supply: Not classified

Risk Phrases: Not classified

Safety Phrases: Not classified

Section 16 - Other information

User Notes:

The purpose of the above information is to describe this product only in terms of Health and Safety requirements. The information given therefore, should not be construed as guaranteeing specific properties or specification. Customers should satisfy themselves as to the suitability and completeness of this information for their own particular use, bearing in mind any other Health and Safety legislation or regulations. The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is construed as a warranty or representation. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

•

Information Sources:

Brilish Aerosot Manufacturers Association Code of Practice.

HSE EH40 Occupation Exposure Limits. Suppliers Safety Data Sheets.



Get the most comprehensive MSDS/HazCom program on the market!

Material Safety Data Sheet

SECTION I - Material Identity

SECTION II - Manufacturer's Information

SECTION III - Physical/Chemical Characteristics

SECTION IV - Fire and Explosion Hazard Data

SECTION V - Reactivity Data

SECTION VI - Health Hazard Data

SECTION VII - Precautions for Safe Handling and Use

SECTION VIII - Control Measures

SECTION IX - Label Data

SECTION X - Transportation Data

SECTION XI - Site Specific/Reporting Information

SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name

LPS PRESOLVE #1420 (BULK) Part Number/Trade Name

6850P001420DR-1 National Stock Number

66724

CAGE Code

Part Number Indicator 185817

MSDS Number HAZ Code

SECTION II - Manufacturer's Information

LPS LABORATORIES, INC Manufacturer Name

4647 HUGH HOWELL ROAD Street

TUCKER City GA State US Country

30085-5052 Zip Code

800-424-9300 CHEMTREC Emergency Phone

770-934-7800 Information Phone

MSDS Preparer's Information

4647 HUGH HOWELL RD Street

City TUCKER
State GA

Zip Code 30085-5052
Date MSDS Prepared/Revised 01JAN93
Active Indicator Y

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

Specification Number	N/R
Hazard Storage Compatibility Code	NR
NRC License Number	NR
Net Propellant Weight (Ammo)	NR
Appearance/Odor	CLEAR, COLORLESS LIQUID W/MILD CITRUS ODOR
Boiling Point	35 0
Melting Point	NR
Vapor Pressure	<5
Vapor Density	4.8 -5.3
Specific Gravity	.803
Decomposition Temperature	NR
Evaporation Rate	<.1
Solubility in Water	SLIGHT
Percent Volatiles by Volume	100
Chemical pH	NR
Corrosion Rate	NR
Container Type	D
Container Pressure Code	1
Temperature Code	4
Product State Code	L

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	TCC
Lower Explosion Limit	.7%
Upper Explosion Limit	6.0%
Extinguishing Media	FOAM, DRY CHEMICAL, CO2, DO NOT USE DIRECT STREAM OF WATER
Special Fire Fighting Procedures	SCBA SHOULD BE WORN, WATER FOG BE USED TO COOL CLOSED CONTAINERS
Unusual Fire/Explosion Hazards	INTENSIVE HEAT CREATED BY FIRE WILL CAUSE AEROSOLS TO BURST

SECTION V - Reactivity Data

YES Stability

Stability Conditions to Avoid

Materials to Avoid

Hazardous Decomposition Products

Hazardous Polymerization

Polymerization Conditions to Avoid

LD50 - LD50 Mixture

AVOID SPARKS OR OPEN FLAMES

STRONG OXIDIZING AGENTS

CARBON MONOXIDE

NO

WILL NOT OCCUR

N/R

SECTION VI - Hea)th Hazard Data

Route of Entry: Skin YES YES Route of Entry: Ingestion YES

Route of Entry: Inhalation

Health Hazards - Acute and Chronic

NAUSEA, ANESTHETIC EFFECTS SKIN: REPEATED/PROLONGED MAY CAUSE DRYIING & DEFATTING INGEST: ASPIRATION INTO LUNGS MAY CAUSE PULMONARY INJURY

INHALE: HEADACHE, DIZZINESS,

NÓ Carcinogenity: NTP Carcinogenity: IARC NO NO Carcinogenity: OSHA NR

Explanation of Carcinogenity

Symptoms of Overexposure

INHALATION: HEADACHE, DIZZINESS, NAUSEA AND ANESTHETIC EFFECTS. EYES: IRRITATION. SKIN: REPEATED OR PROLONGED CONTACT MAY CAUSE DRYING AND DEFATTING OF SKIN. INGESTION: LOW ORDER OF ORAL TOXICITY; HOWEVER, MINUTE AMOUNT ASPIRATED INTO LUNGS

DURING INGESTI

Medical Cond. Aggrevated by Exposure

PRE-EXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE

AGGREVATED

Emergency/First Aid Procedures

INHALE: MOVE TO FRESH AIR, ADMINSTER O2 IF BREATHING IS DIFFICULT. EYE: FLUSH EYES W/PLENTY OF WATER, CONTACT A PHYSICIAN SKIN: WASH W/SOAP & WATER; APPLY MEDICATED SKIN CREAM. INGEST: DO NOT INDUCE VOMITING. IF VOMITING OCCURS-KEEP HEAD BELOW HIPS TO

PREVENT ASPIRATION OF LIQUID INTO LUNGS. GET MEDICAL ATTN

SECTION VII - Precautions for Safe Handling and Use

Material Safety C. T. Sheet

MSDS: 11759 F37 E2 TELL .

.

PHYSICAL DATA _______

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

FIRE AND EXPLOSION DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

FLAMMABILITY CLASSIFICATION.

OSHA: Class III 8

EXTINGUISHING MEDIA: Use to m, CO2, dry chamical, gand.

UNUSUAL FIRE AND EXPLOSION HAZARD. . Dende smot was be gant abad when burning

SPECIAL FIRE FIGHTING PROCEDURES: Askeld use of water, but if there is no other alternative, implement. Firerighters should be equipped with self-contained breathing apparatus and turnout John Mator stroy may be used to cool closed containers to prevent pressure build-up and sociable autorignition when expected to extreme heat.

HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Sensitive individuals may experience dermatitis

after long exposure on skin.

MEDICAL CONDITION PROME TO AGGRAVATION BY EXPOSURE: None known.

PRIMARY ROUTE(5) OF ENTRY: DERNAL

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove from exposure, restore breathing. Call physician.

EYES: Flush with withr for 15 minutes. Call physician.

SKIN: Wash with soap and water, remove contaminated clothing.

INGESTION: DO NOT INDUCE VOMITING

MS05: 41050

Naterial Safaty Data Dhoot

MSDS: 11959 - SUPER JELL COMPOUND 8124

to due does been pulse had hay use made his copy that are mids. Here, A to many copy is in case. I set does with it much REACTIVITY DATA

PRODUCT STABILITY: Openhanews contuction as cities

CONDITIONS TO AVOID: Nost, opaile, up. Flame, streng outdering managinals.

HAZARDOUS DECOMPOSITION PRODUCTS OF ENGINEE J. Service.

HAZARDOUS FOLYMERICATIONS WELL both occur-

SPILL OR LEAK PROCEBURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED: Wife up - Dispose of wipers in containers approved for oily wastes.

WASTE DISPOSAL METHOD: In accordance with Federal, State, and Local regulations. Rags and waste paper containing this material may heat and burn spontaneously. Store wiping rags containing this material in metal cans with tight lids.

SPECIAL PROTECTION INFORMATION

VENTILATION: General ventilation or local exhaust ventilation or as specified by Local or State requirements.

PROTECTIVE GLOVES: None required normally.

RESPIRATORY PROTECTION: None required in norms usual.

EYE PROTECTION: None required in normal usage.

OTHER PROTECTIVE EQUIPMENT: Mone

SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store in sealed containers away from heat, sparks, open flames and exidizing materials. Fire extinguisher readily available and personnel trained in its proper use.

OTHER PRECAUTIONS: FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY. DO NOT REUSE CONTAINER FOR OTHER PURPOSES.

SPECIAL MOTES

While Superior Printing Ink Company, Inc. believes the data set forth herein are accurate as of the date hereof, Superior Printing Ink Company, Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.

End of MSDS

MSDS: 11759 - SURGA JELL COMPOUND 8124 Plant # 404 Insert o eneverancemental accessors a second serial 1/23 % Revised, Dres, 96 Status: Hending Formula: NOT GIVEN Part Number: MOT GIVEN Specification: NOT GIVEN Kayword: NOT alvan Synonyms: NOT GIVEN Stock Items: NOT GIVEN Manufacturer SUPERIOR PRINTING INK CO., INC. Plane: 212-7-1-3562 70 BETHUNE STREET Elmi 2010/4 212 741-0000 NEW YORK, NY 10014 Supplier SUPERIOR PRINTING INC CO., INC. 70 BETHUNE STREET . Chanel L12-231-0800 Emeryancy: 213 741 3800 NEW YORK, NY 10014 Physical/Chemical Characteristics Boiling Point: ET SOUF : 10 7 Melting Point: NG Freezing Point HG Pour Point NG Softening Point: NG 1 Specific Gravity: LT LIG.DENSITY, LIGHTER. Vapor Pressure: NG 1 HEAVIER THAN AIF. Vapor Density: GT 1.0% Percent Volatiles: LE BY WT. Evaporation Rate: LT SLOWER, BUAC=1. Ţ pH NG Molecular Weight: NG Viscosity NG Solubility in Water ..: MONE. Odor/Appearance/Other Characteristics: CLEAR YELLOW GEL / OLEORESINOUS ODOR. Fire and Explosion Data Closed Cup Flush Pt. .: GT 200 . PRICC. Open Cup Flash Point .: NG Fire Point NG Auto Ignition NC Lower Explosion Limit : ND 135 0:17. Upper Explosion Limit : NG Shipping Regulations UN/NA Number: NG

Material Sufety DATA Cheet

DOT Hazard Class: NOT REGULATED

Shipping Label: NOT GIVEN Shipping Name: NOT GIVEN

HS088 11989

Material Safet Data 5 348

MSD3: 11959 - BUPER JE 1 DO FOUND RL

Plant #: 404 Injertice === ===========

Prepared

Prepare: 1. Mama & Title, NOT I LA

Preparation tate: 5 0: 12

Component(s):

SUPER JELL COMPOUND

OSHA Pel: NG ppm NG mg/m3 ACGIH TLV: NG ppm NG mg/m/ STEL: NG ppm NG mg/m/

Percent of Product: NG

GAS NO. : NOT GIVEN

Pulsa 117-57

es a Region

Text Section(s)

PRODUCT IDENTIFICATION

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

TRADE NAME: Super Jell Compound

PRODUCT CLASS: Printing Aid

PRODUCT NUMBER: 8124

HMIS: H 1; F 1; R 0

MANUFACTURER:

SUPERIOR PRINTING INC. 10., INC.

70 BETHUNE STPEET

NEW YORK, NEW YORK 1001;

INFORMATION PHONE: (212) 741-3500

EMERGENCY PHONE: (212) 741-3600

HAZARDOUS COMPONENTS

SEE COMPONENT PAGES FOR ADDITIONAL INFORMATION

This product is not considered hazardous under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Material Safety Dala Cheet

MSDS: 11950 - SUPER TOLL CONNOCIO GLU:

Plant #: 404 Inderton passesses of transmission access commences [92]

35 (S: E 30)

PHYSICAL DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

FIRE AND EXPLOSION DATA

SEE DATA PAGES FOR ADDITIONAL INFORMATION.

FLAMMABILITY CLASSIFICATION:

OSHA: Class III 8

EXTINGUISHING MEDIA: Usa feam, CO2, dry chamical, sand.

UNUSUAL FIRE AND EXPLOSION MAZARBO: Dense smoke may be generated when

burning

SPECIAL FIRE FIGHTING PROCEDURES: Avoid use of water, but if there is no other alternative, implement. Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Mater appay may be used to cool closed containers to prevent pressure build-up and possible auto-ignition when exposed to extreme heat.

HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Sensitive individuals may experience dermatitis after long exposure on skin.

MEDICAL CONDITION PRONE TO AGGRAVATION BY EXPOSURE: None known.

PRIMARY ROUTE(S) OF ENTRY: DERNAL

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove from exposure, restore breathing. Call physician.

EYES: Flush with water for 15 minutes. Call physician.

SKIN: Wash with soap and water, Jumove contaminated elething.

INGESTION: DO NOT INDUCE VOMETING

Material Safety Data Sheet

MSDSJ 11950

MSDE: 11959 - SUPER JELL COMPOUND SILE

and not not not been been been not been not not been and the second of t

REACTIVITY DATA

444.9 PRODUCT STABILITY: Spontons of combustion can diem

CONDITIONS TO AVOID: "Stat. of a Lo. op., flame, thought idling moderates."

m + 10 10 1 45 101 + -----

HAZARDOUS DECOMPOSITION PRODUCTS: Co and Cop on a PARS.

HAZARDOUS POLYMERITATION: Will Not occur

and reflect haloed which which which was a finite a finite which were appeared to the property and the second which which which was a finite with the second with which will be second with the second with th

SPILL OR LEAK PROCEDURES

the second secon PROCEDURE WHEN MATERIAL SPILLED OR RELEASED: Wipe up - Dispose of Wipers in containers approved for oily wastes.

WASTE DISPOSAL METHOD: In accordance with Federal, State, and Local regulations. Rags and waste paper containing this material may heat and burn spontaneously. Store wiping rags containing this material in metal cane with tight lids.

SPECIAL PROTECTION INFORMATION

VENTILATION: General ventilation or local exhaust ventilation or as

specified by Local or State requirements.

PROTECTIVE GLOVES: None arequired normally.

RESPIRATORY PROTECTION: Note: equated in torus! usage

EYE PROTECTION: None required it normal usage.

OTHER PROTECTIVE EQUIPMENT: None

SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Store in sealed containers away from heat, sparks, open flames and oxidizing materials. Fire extinguisher readily available and personnel trained in its proper use.

OTHER PRECAUTIONS: FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY. DO NOT REUSE CONTAINER FOR OTHER PURPOSES.

Material 1 dety late Sheet MSDS: 1195 - SUPER June Cont. 1 1 1 1/2/20 Plant #: 404 incented Personal typeschaper 4:

SPECIAL NOTES

While Superior Printing Ink Company, Inc. believes the data set forth herein are accurate as of the date hereof, Superior Printing Ink Company, Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.

and religion to the state of th

End of MSDS

Material Safety Data Sheet

NFPA Fire: 0 Health: 1 Reactivity: 0

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

Manufacturer's Name, Address The Fuller Brush Company - PO Box 729 - Great Bend KS 67530 Product Name: Appearance 2000 Floor Finish Product Number: 964 Chemical Family: Aqueous emulsion of polymers. Package Size 1, 5, 55 Gallon EPA Reg. No: N/A Emergency Telephone No. 316-792-1711 Preparer: Bill Dayton Date: 01/15/01 Signature: SECTION IE HAZARDOUS INGREDIENTS IDENTITY INFORMATION Hazardous Components CAS# OSHA TWA ACGIH TWA Percent
Chemical Family: Aqueous emulsion of polymers. Package Size 1, 5, 55 Gallon EPA Reg. No: N/A Emergency Telephone No. 316-792-1711 Preparer: Bill Dayton Date: 01/15/01 Signature: SECTION INCREDIENTS IDENTITY INFORMATION
Preparer: Bill Dayton Date: 01/15/01 Signature: SECTION INCHAZARDOUS INGREDIENTS IDENTITY INFORMATION
Hazardous Components CAS# OSHA TWA ACGIH TWA Percent
**Diethylene Glycol Methyl Ether 111-77-3 NE NE 5 0 *Ammonia 7664-4107 *Polyurethane 9002-88-4 *Ethylene Copolymer 67892-91-5 *Styrene Acrylic Polymer 25085-34-1 *Water 7732-18-5
SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS
No Physical Hazards
Boiling Point, °F: 212F Solubility in Water: Dispersible Evaporation Rate: 1 Vapor Pressure Unknown Specific Gravity (water =1): 1.032 pH 8 6 Vapor Density: N/A %Volatiles by Weight: <80
Appearance and Odor: White opaque, thin liquid with characteristic odor
SECTIONITY EIRE AND EXPLOSION HAZARD DATA
Flash Point (Method): None Flammable Limits LEL N/A UEL N/A Extinguishing Media: N/A
Special Fire None Fighting Procedures. Unusual Fire and None
Explosion Hazards'
Stability Unstable Conditions to Avoid N/A Stable x Incompatability: Do not mix with any other material (Materials to Avoid)
Hazardous Decomposition None Products or Byproducts:
Hazardous Polymerization: May Occur: Will Not Occur: X Conditions to Avoid: N/A
Comments. *Added to comply with the Pennsylvania Worker Right to Know Act of 1984 & the New Jersey Worker & Community Right to Know Act of 1983. **This product contains one or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the

^{**}This product contains one or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See the Hazardous Components in Section II.

SECTION VI - HEALTH HAZARD DATA
Route (s) of entry: Inhalation x Skin: x Eye x Ingestion: x
No Health Hazard Reproductive toxin Sensitizer Toxic I Irritant Carcinogen Highly Toxic Corrosive See Target Organs x
TARGET ORGANS Lungs Eyes X Blood Teratogen Mucous Membranes X Heart Skin X Liver Central Nervous System Kidney Prostrate Mutagen Cardiovascular System Respiratory System X
Carcinogenicity: None Known x NTP IARC OSHA Regulated
Medical Conditions Generally Aggravated by Exposure None known
Signs and Symptoms of Exposure. May cause eye and skin irritation.
Emergency and First Aid Procedures: In case of contact with eyes or skin, rinse thoroughly with water for 15 minutes. Call a physician if irritation persists. If swallowed, call a physician or Poison Control Center. If inhaled, remove to fresh air.
SECTIONIVII - PRECAUTIONS FOR SAFE HANDLING AND USE
Steps to be taken in case material is released or spilled: Small Spill: Mop up with detergent, rinse with water. Large Spill: Mop up, absorb with an inert absorbent, dike or turn container over as applicable.
Waste Disposal Method. Small Amount. Dispose in trash container Large Amount. Dispose in accordance with Local, State and Federal regulations.
Potential EPA Hazardous Waste Code(s): N/A
Steps to be taken in handling and storage Store at 40 - 90F. Keep from freezing. Read and follow label use directions. Keep out of reach of children.
SECTION VIII CONTROL MEASURES
Respiratory Protection(Specify Type): None required.
Ventilation: Local Exhaust: Special Mechanical Recommended
Protective Gloves Optional Eye Protection Recommended
Other Protective Clothing and Equipment: None required
SECTIONIX SHIPPING INFORMATION
DOT Proper Shipping Name and Number. Not regulated
NE = Not Established N/A = Not Applicable



ISOPROPYL ALCOHOL Product Name:

Revision Date: 09 Jan 2015

Page 1 of 12

SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: ISOPROPYL ALCOHOL Product Description: Oxygenated Hydrocarbon

Product Code: 9115 Intended Use: Solvent

COMPANY IDENTIFICATION

Supplier: CIOL - EXXONMOBIL CHEMICAL CANADA

Division of Canada Imperial Oil Limited, an Affiliate of Exxon Mobil Corporation

240 4TH AVENUE S.W.

CALGARY, ALBERTA. T2P 3M9 Canada

24 Hour Health Emergency 1-866-232-9563 Transportation Emergency Phone 1-866-232-9563

Product Technical Information

1-800-663-4109

SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

CLASSIFICATION:

Flammable Ilquid: Category 2.

Eye irritation: Category 2A. Specific target organ toxicant (central nervous system): Category 3.

LABEL: Pictogram:



Signal Word: Danger

Hazard Statements:

H225: Highly flammable liquid and vapor. H319: Causes serious eye Irritation. H336: May cause drowsiness or dizziness.

Precautionary Statements:



Revision Date: 09 Jan 2015

Page 2 of 12

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233: Keep container tightly closed. P240: Ground / bond container and receiving equipment. P241: Use explosion-proof electrical, ventilating, and lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P261: Avoid breathing mist / vapours. P264: Wash skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves and eye / face protection.P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P337 + P313: If eye irritation persists: Get medical advice/attention. P370 + P378: In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish.P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up.P501: Dispose of contents and container in accordance with local regulations.

Contains: ISOPROPYL ALCOHOL

Other hazard information:

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1900.1200.

PHYSICAL / CHEMICAL HAZARDS

Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited.

HEALTH HAZARDS

May be irritating to the skin, nose, throat, and lungs. May cause central nervous system depression. If swallowed, may be aspirated and cause lung damage.

ENVIRONMENTAL HAZARDS

No significant hazards.

NFPA Hazard ID: Health: 2

Flammability: 3

3

Reactivity: 0

HMIS Hazard ID:

Health: 2

Flammability:

Reactivity:

NOTE: This material should not be used for any other purpose than the Intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a substance.

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
ISOPROPYL ALCOHOL	67-63-0	100 %	H225, H305, H336,
			H319(2A)

^{*} All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and



Revision Date: 09 Jan 2015

Page 3 of 12

exact percentage (concentration) of composition may have been withheld. Specific chemical Identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

EYE CONTACT

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

INGESTION

Seek immediate medical attention. Do not induce vomiting.

NOTE TO PHYSICIAN

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION 5

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Highly flammable. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous malerial. Firefighters should consider protective equipment Indicated in Section 8.

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method]: 12°C (54°F) [ASTM D-56]

Flammable Limits (Approximate volume % in air): **UEL: 13**

Autoignition Temperature: >350°C (662°F) [Technical literature]



Revision Date: 09 Jan 2015

Page 4 of 12

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

SPILL MANAGEMENT

Land Splll: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry Into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dlke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7

HANDLING AND STORAGE

HANDLING

Avoid contact with eyes. Prevent exposure to ignition sources, for example use non-sparking tools and explosion-proof equipment. Potentially toxic/irritating fumes/vapors may be evolved from heated or agitated material. Use only with adequate ventilation. Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Peroxides may form upon prolonged storage. Exposure to light, heat or air significantly increases peroxide formation. If evaporated to a residue, the mixture of peroxides residue and material vapor may explode when exposed to heat or shock. Prevent small spills and leakage to avoid slip hazard.



Revision Date: 09 Jan 2015

Page 5 of 12

Loading/Unloading Temperature:

[Ambient]

Transport Temperature:

[Amblent]

Transport Pressure:

[Ambient]

Static Accumulator: This material is not a static accumulator.

STORAGE

Ample fire water supply should be available. A fixed sprinkler/deluge system is recommended. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Outside or detached storage preferred. Storage containers should be grounded and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge.

Storage Temperature:

[Ambient]

Storage Pressure:

[Ambient]

Sultable Containers/Packing: Drums; Tank Cars; Tank Trucks; Tankers; Barges

Suitable Materials and Coatings (Chemical Compatibility): Carbon Steel; Stainless Steel; Polyester;

Teflon; Polyethylene; Polypropylene; Copper Bronze; Epoxy Phenolic; Zinc; Vinyls

Unsuitable Materials and Coatings: Aluminum; Cast iron; Polystyrene; Ethylene-proplyene-diene monomer

(EPDM); Monei; Butyl Rubber; Natural Rubber

EXPOSURE LIMIT VALUES

SECTION 8. EXPOSURE CONTROLS PERSONAL PROTECTION

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Sta	indard	NOTE	Source
ISOPROPYL ALCOHOL		TWA	980 mg/m3 400 ppm	! N/A	OSHA Z1
ISOPROPYL ALCOHOL		STEL	400 ppm	N/A	ACGIH
ISOPROPYL ALCOHOL		TWA	200 ppm	N/A	ACGIH

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Biological Ilmits

Substance	Specimen	Sampling Time		Determinant	Source
ISOPROPYL ALCOHOL	Urine	End of shift at	40 mg/l	Acetone	ACGIH BELs
		end of work wk			(BEIs)

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

PERSONAL PROTECTION



Revision Date: 09 Jan 2015

Page 6 of 12

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airbome contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace wom or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Eye Protection: Chemical goggles are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hyglene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State: Liquid

Form: Clear
Color: Colorless
Odor: Alcohol
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION



A service of the service of

Product Name: iSOPROPYL ALCOHOL

was in the contract of the con

Revision Date: 09 Jan 2015

Page 7 of 12

Relative Density (at 20 °C): 0.786 [With respect to water] [Calculated] Density (at 20 °C): 785 kg/m³ (6.55 lbs/gal, 0.79 kg/dm³) [ISO 12185]

Flammability (Solld, Gas): N/D

Flash Point [Method]: 12°C (54°F) [ASTM D-56]

Flammable Limits (Approximate volume % in air): LEL: 2.0 **UEL: 13**

Autolgnition Temperature: >350°C (662°F) [Technical literalure] Bolling Point / Range: 82°C (180°F) - 83°C (181°F) [ASTM D1078]

Decomposition Temperature: N/D

Vapor Density (Alr ≥ 1): > 1 at 101 kPa [Calculated]

Vapor Pressure: 4.3 kPa (32.25 mm Hg) at 20 °C [Calculated]

(in-house method)

Evaporation Rate (n-butyl acetate = 1): 3.9 [in-house method]

pH: N/D

Log Pow (n-Octanol/Water Partition Coefficient): 0.05 [Technical literature]

Solublity In Water: Complete

Viscosity: [N/D at 40 °C] | 2.66 cSt (2.66 mm2/sec) at 25°C [ASTM D7042]

Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/D

Melting Point: -89°C (-128°F) [Technical literature]

Molecular Weight: 60 G/MOLE [Calculated]

Hygroscopic: Yes

Coefficient of Thermal Expansion: 0.00117 V/VDEGC [in-house method]

SECTION 10 STABILITY AND REACTIVITY

White the state of
REACTIVITY: See sub-sections below.

STABILITY: Under normal storage conditions peroxides may accumulate and explode when subjected to heat or shock. Distillation or evaporation increases peroxide formation and increases the explosion hazard.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources.

MATERIALS TO AVOID: Aldehydes, Amines, Strong oxidizers, Caustics, Chlorinated Compounds,

Alkanolamines

HAZARDOUS DECOMPOSITION PRODUCTS: Malerial does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks	
Inhalation		
Acute Toxicity: (Rat) 6 hour(s) LC50 >	Minimally Toxic. Based on test data for the material. Test(s)	
25000 mg/m3 (Vapor)	equivalent or similar to OECD Guideline 403	
Irritation: No end point data for material.	Elevated temperatures or mechanical action may form vapors,	
	mist, or fumes which may be irritating to the eyes, nose, throat, or	



Revision Date: 09 Jan 2015

Page 8 of 12

	lungs.		
Ingestion			
Acute Toxicity (Rat): LD50 5840 mg/kg	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 401		
Skin			
Acute Toxicity (Rabbit): LD50 13900 mg/kg	Minimally Toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 402		
Skin Corrosion/Irritation: Data available.	May dry the skin leading to discomfort and dermatitis. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 404		
Eye			
Serious Eye Damage/Irritation: Data available.	Imitating and will injure eye tissue. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 405		
Sensitization			
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.		
Skin Sensitization: Data available.	Not expected to be a skin sensitizer. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 406		
Aspiration: Data available.	May be harmful if swallowed and enters airways. Based on physico-chemical properties of the material.		
Germ Cell Mutagenicity: Data available.	Not expected to be a germ cell mutagen. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 471 474 476		
Carcinogenicity: Data available.	Not expected to cause cancer. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 451		
Reproductive Toxicity: Data available.	Not expected to be a reproductive toxicant. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 414 415 416		
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.		
Specific Target Organ Toxicity (STOT)			
Single Exposure: No end point data for material.	May cause drowsiness or dizziness.		
Repeated Exposure: Data available.	Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 413		

OTHER INFORMATION

For the product itself:

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiralory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.

Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

The following ingredients are cited on the lists below: None.

-- REGULATORY LISTS SEARCHED--



Revision Date: 09 Jan 2015

Page 9 of 12

3 = IARC 1 1 = NTP CARC

5 = IARC 2B

2 = NTP SUS

4 = IARC 2A

6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to demonstrate chronic toxicity to aquatic organisms.

MOBILITY

Material -- Expected to remain in water or migrate through soil.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Material - Expected to be readily biodegradable.

Hydrolysis:

Material - Transformation due to hydrolysis not expected to be significant.

Photolysis:

Material -- Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation:

Material - Expected to degrade at a moderate rate in air

OTHER ECOLOGICAL INFORMATION

VOC (EPA Method 24): 6.551 ibs/gai

ECOLOGICAL DATA

Ecotoxicity

Test	Duration	Organism Type	Test Results
Aquatic - Acute Toxicity	24 hour(s)	Daphnia magna	LC50 9714 mg/l: data for the material
Aquatic - Acute Toxicity	96 hour(s)	Pimephales promelas	LC50 9640 mg/l: data for the material
Aquatic - Acute Toxicity	8 day(s)	Aiga	LOEC 1000 mg/l: data for the material

Persistence, Degradability and Bloaccumulation Potential

Media	Test Type	Duration	Test Results
Octanoi-Water	Calculated		log Kow 0.05 : material
Water	Ready Biodegradability	5 day(s)	Percent Degraded 53 : material

SECTION 13 DISPOSAL CONSIDERATIONS	数量用。1、100mm(121×12),产品的产品,产品的设施的设施。1220年
DISPUSAL CUNSIDERATIONS	NGT 12 CO 10 (4. NGC) 24 20 (18 20) . "LALLED BY BY LANGUAGE SECTION FOR SECTION AND SECTION OF SECTION AND SECTION ASSESSMENT OF SECTION ASSESSMENT ASSESSMENT ASSESSMENT ASSE
	THE RESERVE AND ADDRESS OF THE PROPERTY OF THE

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.



Revision Date: 09 Jan 2015

Page 10 of 12

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised Incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

RCRA Information: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP). Potential RCRA characteristics: IGNITABILITY.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14: TRANSPORT INFORMATIONS

LAND (DOT)

ISOPROPANOL Proper Shipping Name:

Hazard Class & Division:

ID Number: 1219 Packing Group: ||

ERG Number:

129

Label(s):

Transport Document Name:

UN1219, ISOPROPANOL, 3, PG II

LAND (TDG)

ISOPROPANOL Proper Shipping Name:

Hazard Class & Division:

UN Number: 1219 Packing Group: !!

SEA (IMDG)

Proper Shipping Name: **ISOPROPANOL**

Hazard Class & Division: EMS Number: F-E, S-D UN Number: 1219

Packing Group: II Marine Pollutant: No

Label(s): 3

Transport Document Name: UN1219, ISOPROPANOL, 3, PG II, (12°C c.c.)

AIR (IATA)

Proper Shipping Name: ISOPROPYL ALCOHOL

Hazard Class & Division: 3

UN Number: 1219 Packing Group: !!



Product Name: ISOPROPYL ALCOHOL

Revision Date: 09 Jan 2015

Page 11 of 12

Label(s) / Mark(s): 3

Transport Document Name:

UN1219, ISOPROPYL ALCOHOL, 3, PG II

SECTION 15	(特別な対象を特別を表示してきたける。	TATOEVENIED DIANTIONS	THE STREET STREET	The second second	1 25 20 20
		LATERAGINE OKRA HON	· · · · · · · · · · · · · · · · · · ·	A Transaction of the Contract	A 100 TO

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910,1200.

Listed or exempt from ilsting/notification on the following chemical inventories: AICS, DSL, ENCS, IECSC, KECI, PICCS, TSCA

EPCRA SECTION 302: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: Fire. Immediate Health. Delayed Health.

SARA (313) TOXIC RELEASE INVENTORY:

Chemical Name	CAS Number	Typical Value
ISOPROPYL ALCOHOL	67-63-0	100 %

Isopropyl alcohol is reportable under SARA 313 only when it is manufactured in a strong acid process.

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
ISOPROPYL ALCOHOL	67-63-0	1, 4, 13, 16, 17, 18, 19

-REGULATORY LISTS SEARCHED-

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = Mi 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16 OTHER INFORMA	TION	12 6 B A

N/D = Not determined, N/A = Not applicable

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for Information only):

H225: Highly flammable liquid and vapor; Flammable Liquid, Cat 2

H305: May be harmful if swallowed and enters airways; Aspiration, Cat 2

H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A

H336: May cause drowsiness or dizziness; Target Organ Single, Narcotic



Product Name: !SOPROPYL ALCOHOL

Revision Date: 09 Jan 2015

Page 12 of 12

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Updates made in accordance with implementation of GHS requirements.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to Insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the Intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

Internal Use Only

MHC: 2A, 0, 0, 2, 1, 1

DGN: 5007530 (1004616)

Copyright 2002 Exxon Mobil Corporation, All rights reserved

Date

Activity by Contract and Waste Generator

CCL Label: 14084 Special Waste Only Detail Report

Busing			ង	ಠ	¥	5	ថ	£	a	ප්	N.C.	a	ಶ	ជ	ಠ	73	ಠ	Ш	9	H
Billing	5,117.20		1.00	900,000	328	871	00 008	2.19	8.	00 0001	4.15	180	00 009	81	00 009	81	00,006	00.0	5,100 001	11.20
Tracking			4	70	ថ	2	ತ	ថ	73	ಕ	19	4	3	49	ថ	4	ಕ	ð	ತ	
Tracking	5, 100,00		1	620.00	00 D	8	800 00	000	100	1,000.00	800	100	600.00	1,00	00,009	1.00	00 008	8 00	5,100 00	
Tone	23.54		93.6	900	RC	900	0.00	336	000	00.0	3.	000	372	000	3.28	9000	7	23.54		
	10																	15		
Reference	Tichet Count	00.	MA11838-5T 6432	MA11636/5T 6422	MA11838/67.8432	MA. 18564/5T 10898	MA.19564/5T 10880	MA.18564/ST 10898	AA.30107/5T.15102	AA.30107/57 15102	MA.30107/57 15102	MAJ61275T 17636	ALA368215T 17656	MALISTEST 16365	1441 (7) 6:ST 16965	ma-16480st 21800	ma494.00%1.21800	Grand Totals		
Malerial	708-VACUUM	4294 CCL INSERTCO	FEE+WUTHWISTRUCK	SW-SPECIAL WASTE-LIGHTO	SW-SPECIAL WASTE-LIQUED	FEEHAULTRANSTRUCK	EW-EPECAL WASTE-LIQUED	SW-6PECIAL WASTE LIQUID	FEE HALLTRANS/TRUCK	SW-SPECIAL WASTE-LIQUID	EW-EPECIAL WASTE-LIQUID	FEEHAUUTRANSTRUCK	SW-SPECIAL WASTE-LIQUID	FEE+HAUCTRANSTRUCK	SW-SPECIAL WASTE-LOUID	FEE-HALL/TRANS/TRUCK	SW-SPECIAL WASTELLOUD	9		
Ticket	Contract - 42177432708-VACUUM	Generator	\$55741	555741	555741	588257	588257	544257	629743	629743	625743	9027208	8-2Z-19-8	1024145	1024185	1063606	1083808			

412111 412111 413111 112412 112412 112412 22113 22113 22113 112513 112513 112513 112513

Page 1 of 1

ATOR (General	ator completes ta-	Il waste is asbes	If waste is asbestos waste, complete Sections I, II, III and IV If waste is NOT asbestos waste, complete Sections I, II and I					
JS EPA ID Number		11 W4316 13 VO 1	c. Peo	sia, compiete Secti	ions and			
f. Phone: (187) 892-1268	erctcostra 2 industra 3 (41) 312 St	RVK/ Generator Wyermun IL Phone:	s Malling Addresa:	Can	#15enT(1033.2		
If owner of the generating facility differs for h. Owner's Name:	rom the generator, pro	ovide:		2011	pamer, r	L (W683		
J. Waste Profile #	Vaste Profile #							
	k. Exp. Date I. Waste Shipping Name and m. Con Description No.							
42174432706	11/9/2015	Ink Rai	due OI	VI	800G/4	o. Unit WWoi		
10								
GENERATOR'S CERTIFICATION: I herebitate law, has been properly described, cle waste is a treatment residue of a previously	by certify that the above	A Current male fall.						
reall desired in accordance with the require	ments of 40 CFR 268	and is in proper condition for tra waste subject to the Land Dispo and is no longer a hazardous w	dous wasta as define insportation accordin isal Restrictions. I ca asto as defined by 4	id by 40 CF. It is applicatility and wa 0 CFR 281	R 261 or any applible regulations; Al	Icable ND, If this In has		
Generator Authorized Agent Name (Print	- COKO CIN	es Maring	Tree		5-15			
TRANSPORTER (General Transporter's Name and Address:	ator completes lia	-b and Transporter compl	alaa II	r. Dala				
MCUCONG!	Hydrivac	n	eres IIC-9)					
Phone:	76-290					- 1		
tocal Del		11)				1		
Driver Namo (Print)	8. Signature	fueles ?	9/	20/	5/20157			
t. DESTINATION (Generator Disposal Facility and Sito Address: (78	r complete Illa-c a	nd Destination Site compl	eies Md-a)					
AVE. BARAMAYA #son	17) 841-7775 c./	HS EPA Number d. Discrepan	cy Indication Space	مشمنان				
PONCE, P.R. 00732	1.0.1.1/10	F-58-00Ø8		100				
ereby certify that the aboy market major a	Has been accopted	and to the best of my knowledge	the foregoing is tour	dad				
Name of Authorizad Arigot (Bulet)		<u>~ ~ /1 /</u>		100	16.			
ASBESTOS (Generator cor	npletes IVa-f and	Oreciles	g. Date	1/2/	<u>, (l</u>			
Operator's Name and Address:	7	C. Beaudities (Ad-i)						
		Tresponsible Age	ncy Name and Addr	953				
thone:		d. Phone:						
ipecial Handling Instructions and Additional	Information:	T S. F Holly.						
) Friable Non-Friable Both	% Friable							
RATOR'S CERTIFICATION: I hereby declare classified, packed, marked and labeled that governmental regulations.	are that the contents of	of this consignment are fully and	Accurately describe					
are classified, packed, marked and labeled anal governmental regulations.	The state of the shape of	a in proper condition for transpor	t by highway accord	ing to applic	roper shipping ne ≳able international	me and		
Demior's Name and Title of								
rator refers to the company which owns, le vation operation or both	h, Signature ases, operates, contro	NS OF SUMMARIAN CO.	I. Date					
5/10		or supervises the facility bein	g demolished or ren	ovated, or t	te demolition or			
	RET	URN TO OPERATOR				FITAPR		



If waste is asbestos waste, complete Sections I, II, III and IV If waste is NOT asbestos waste, complete Sections I, II and III

41979

I. GENERATOR (General	ilor completes ia-r)	354				
a. Generator's US EPA ID Number	ь	Manifest Document Number		c Page	1 of	
d. Generalor's Name and Location: ET RATIO INCUST MO 1. Phone: (16) 842-1208 If owner of the generating facility differs to	IPUNK CON Sin geim	302 NO, 172 g Phone Since	Address TU 1n	Tusti	nc/ PANK	٤
	rom the generator, prov	nde /			,	
h. Owner's Name	11.7.7	I Owner's Phone No				
1. Trans Flottis B	k Exp Date	I Waste Shipping Name and Description		ntainers	n Tolaf	a. Unit
42174432706	11/9/2015	Ink Rosidues	O ₁	VT	800 Gelen	WWol
GENERATOR'S CERTIFICATION: I hard state law, has been properly described, cl	by certify that the above	e nâmed material le not a becorde us				
waste is a treatment residue of a previous been treated in accordance with the requirement of the contract of	rements of 40 CFR 288	waste subject to the Land Disposal Resi and is no longer a hazardous waste as	pictions I ce defined by 40	tify and wa CFR 281	ahin remulationes d	AND, if this see has
* for Out	X-1/-	2 1)=1				
c. Driver Name (Print)	d Signature					
DESTINATION (General Disposal Facility and Site Address: PONCE LANDFILL AVE. BARAWAYA #500 PONCE, P.R. 00732 Description that the above named mate	(18/) 841-7775	US EPA Number d Discrepancy India DF-58-0008	ation Space		V	
MULY MAILION	1 110	The trie dest of the knowledge the lot	egoing is tru	and accu	irato.	
. Name of Authorized Agent (Print)	f Signature	N-		<u> </u>	15/14	
V. ASBESTOS Generator of	completes IVa-f and	Operator complete (Vg-i)	l g Date			
. Operator's Name and Address	iompiotod ved-1 Bill	c. Responsible Agency Na				
. Phone: _<. Special Handling Instructions and Addition	nal Information	d Phone	HING WIND MODE	T853		
Friable Non-Friable Both	% Friab'e	% Non-Friable				
PERATOR'S CERTIFICATION: I hereby d nd are classified, packed, marked and labe atlonal governmental regulations.	eclare that the contents tied and are in all respe		ately describe	d above b	y proper shipping plicable internation	name nal and
ž						
Operator's Name and Title (Print)	h. Signature]
Operator refers to the company which own:	, leases, operates, con	trols, or supervises the facility being den	i. Oate	innusted -	or the slame total	

~~~



If waste is asbestos waste, complete Sections I. II, III and IV If waste is  $\underline{NOT}$  asbestos waste, complete Sections I, II and III

GENERATOR (Constitution of the control of the contr

| GENERATOR (Generator completes)                                                                                                                                                             | a-r)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| a Generator's US EPA ID Number                                                                                                                                                              | b Manifest Document Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                     |
|                                                                                                                                                                                             | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | c. Page 1 of                                                                                        |
| di Generalor e Mairie, and Location  El Francis Industrical Conference (Conference)  I. Phone: (1) 842-1268 Sungermen, (1)  If owner of the generating facility differs from the generator. | y # 302                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Dentes<br>LA #302<br>Singerman, PL                                                                  |
| If owner of the generating facility differs from the generator,                                                                                                                             | provide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DIO OF TOTAL                                                                                        |
| h. Owner's Name:                                                                                                                                                                            | J.77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | •                                                                                                   |
| J. Waste Profile # k Exp. Date                                                                                                                                                              | I. Waste Shipping Name and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                     |
|                                                                                                                                                                                             | Description 14ame and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | m Containers n Total o Unit No Type Quantity Wt/Vol                                                 |
|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No Type Quantity WtVol                                                                              |
| 421144-32706 119/2015                                                                                                                                                                       | Ink hosidue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 01 VT 200                                                                                           |
|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
| GENERATOR'S CERTIFICATION   I hereby certify that the a state law, has been properly described, classified and package waste is a transfer at contract.                                     | to a larger material le set a bassarie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                     |
| state law, has been properly described, classified and package waste is a treatment residue of a previously restricted hazard been treated in accordance with the requirements of 40 CFR    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
| 16 OF CANUACUSE                                                                                                                                                                             | THE WASHINGTON WASHING IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15 Celimed by 40 CFR 281.                                                                           |
| p. Generator Authorized Agent Name (Print)                                                                                                                                                  | Signatura                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                     |
| TRANSPORTER /Generales complete                                                                                                                                                             | lia-b and Transporter completes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | It. Date                                                                                            |
|                                                                                                                                                                                             | Completes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (16-6)                                                                                              |
| DITTANSPART  b. Phone: (191) 877-0502                                                                                                                                                       | HD-11328                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                     |
| Yet O / NED                                                                                                                                                                                 | 112-112-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                     |
| c. Driver Name (Print)                                                                                                                                                                      | mr dw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (X-11/1-1.)                                                                                         |
|                                                                                                                                                                                             | iro V'//                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6. Date                                                                                             |
| Completellia Completellia                                                                                                                                                                   | c and Destination Site completes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | llid-a)                                                                                             |
| PONCE LANDEIN                                                                                                                                                                               | c. US EPA Number   d Dictrepency Inc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dication Space .                                                                                    |
| AVE. BARAWAYA #500<br>PONCE P. R. 00732/                                                                                                                                                    | IDE ED ADDO LINATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Timo en Terpago                                                                                     |
| b. Ni 7                                                                                                                                                                                     | 1. /   (-11(11))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | code del mensherbo                                                                                  |
| hereby being that the about named material has been act to                                                                                                                                  | and to the best of my knowledge the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                     |
| 11 W 1 W 1 W 1 W 7 V T W                                                                                                                                                                    | The state of the s | oregoing is try and accurate.                                                                       |
| Name of Authorized Agent (Print)     I. Signature                                                                                                                                           | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11/10/2011                                                                                          |
| IV. ASBESTOS (Generator comptetes IVa-I                                                                                                                                                     | and Opposite and the state of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | g Date                                                                                              |
| a. Operator's Name and Address:                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
| •                                                                                                                                                                                           | c. Responsible Agency N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Name and Address                                                                                    |
|                                                                                                                                                                                             | J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                     |
| b. Phone:                                                                                                                                                                                   | d Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                     |
| e. Special Handling Instructions and Additional Information:                                                                                                                                | 1 o Fridis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                     |
|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
| Friable Non-Friable Both % Friable                                                                                                                                                          | e % Non-Friable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                     |
| OPERATOR'S CERTIFICATION: I hereby declare that the content are classified, packed, marked and tabeled and are in all respectively governmental regulations.                                | ints of this consignment are fully and accurate in proper condition for transport by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | rately described above by proper shipping name<br>highway according to applicable international and |
| OVERSION Name and The Property Tors Carles                                                                                                                                                  | E Matin To                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11-5-13                                                                                             |
| Operator refers to the company which owns, teases, operator                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I. Date                                                                                             |
| Operator refers to the company which owns, leases, operates, of the company which owns, leases, operates, of the company which owns, leases, operates, or both                              | unitions, or supervises the facility being de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mailshed or renovated, or the demolition or                                                         |



If waste is asbestos waste, complete Sections I. II, III and IV II waste is  $\underline{\text{MOT}}$  asbestos waste, complete Sections I. II and III

0107د

| GENERATOR (Generale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | or completes is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1-r)                                       |                                                               |                              |                          |                                                  |                     |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|------------------------------|--------------------------|--------------------------------------------------|---------------------|--|--|--|
| erator's US EPA ID Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | b. Manifest Docum                          | nent Number                                                   |                              | c Page 1 of              |                                                  |                     |  |  |  |
| Generator's Name and Location:  (N) (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | rk int                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10,64                                      | BUX 37                                                        | Adress<br>PYTC               | 01 11157                 |                                                  |                     |  |  |  |
| h. Owner's Name: 14) 612                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A DAIDE.                                   | I. Owner's Phone No.                                          | 11                           | P.                       | 2776                                             | 1                   |  |  |  |
| 1. Waste Profile #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | k. Exp. Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1, Waste Ship<br>Description               | ping Name and                                                 |                              | ntainers n Total c. Unit |                                                  |                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Describition                               |                                                               | No                           | Type                     | Quantity                                         | WI/Vol              |  |  |  |
| 4717 1-32106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11/7/2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5 Ink                                      | Mosille                                                       | (I)                          | VT                       | 1,000                                            | 915                 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |                                                               |                              |                          |                                                  |                     |  |  |  |
| GENERATOR'S CERTIFICATION: I hereby cartify that the above named material is not a hazardous waste as defined by 40 CFR 251 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations, AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |                                                               |                              |                          |                                                  |                     |  |  |  |
| Carlos EMArtinez                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7000 (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | outs &                                     | Enter for                                                     |                              | 2-                       | 8-13                                             | 100                 |  |  |  |
| p. Generalor Authorized Agent Name (Printle) II. TRANSPORTER (Gener                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | the later with the la | Signature                                  |                                                               |                              | r. Date                  |                                                  |                     |  |  |  |
| a. Transporter's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 36 % - 70.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | s lie-o and Tran                           | ISDOITER COMDITIES IIC                                        | -0)                          | 25-                      |                                                  |                     |  |  |  |
| Internal Hydrova                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |                                                               |                              |                          |                                                  | 57L9                |  |  |  |
| b. Phone: 701 3 36-12-70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ,                                          |                                                               |                              |                          |                                                  |                     |  |  |  |
| Abraham Arroy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | / /                                        |                                                               |                              | 2 -                      | 8-13/                                            |                     |  |  |  |
| c. Driver Name (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | d. Signa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                                                               | e. Date                      |                          |                                                  |                     |  |  |  |
| III. DESTINATION (General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                          |                                                               |                              | ,                        | /                                                |                     |  |  |  |
| a. Disposal Facility and Site Address; (PONCE LANDFILL AVE. BARAMAYA #500 PONCE, P. R. 00732 b.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (787) 841-7775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | C. US EPA Num                              |                                                               | ation Space                  |                          |                                                  |                     |  |  |  |
| I hereby certify that the above named mate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ria has been accr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | epted and to the be                        | st of my knowledge the form                                   | againg is try                | se and acc               | zurald. / , w/                                   |                     |  |  |  |
| 1/1/1/M MY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1. /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                                          |                                                               |                              | ./                       | VII                                              | 7                   |  |  |  |
| e. Name of Authorized Agent (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            | /                                                             | g Date                       |                          | <del>,                                    </del> |                     |  |  |  |
| IV. \ ASBESTOS (Generator o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | complétes IVa-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | f and Operator                             |                                                               |                              |                          |                                                  | Visited as a second |  |  |  |
| a. Operator's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            | c. Responsible Agency Na                                      | me and Add                   | iress                    |                                                  |                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |                                                               |                              |                          |                                                  |                     |  |  |  |
| b. Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                          | d. Phone:                                                     |                              |                          |                                                  |                     |  |  |  |
| Special Handling Instructions and Addition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | mai information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            | 201011111111111111111111111111111111111                       |                              |                          |                                                  |                     |  |  |  |
| f. Friable Non-Friable Both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | % Frie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            | % Non-Friable                                                 |                              |                          |                                                  |                     |  |  |  |
| OPERATOR'S CERTIFICATION: I hereby of<br>and are classified, packed, marked and lab<br>netional governmental regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | declare that the co-<br>eled and are in all                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ntents of this consi<br>respects in proper | griment are fully and accura<br>condition for transport by hi | stely describ<br>ighway acco | ed above<br>ording to a  | by proper shippin<br>ipplicable internati        | onal and            |  |  |  |
| )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |                                                               |                              |                          |                                                  | 700                 |  |  |  |
| g. Operator's Name and Title (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | h, Signat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | iture                                      |                                                               | I. Date                      |                          |                                                  |                     |  |  |  |
| "Operator refers to the company which own removation operation or both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | is, leases, operate:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | s, controls, or supe                       | rvises the facility being den                                 | nolished or                  | renovaled                | , or the demolition                              | 00                  |  |  |  |

If waste is asbestos waste, complete Sections I, II, III and IV If waste is  $\underline{\text{NOT}}$  asbestos waste, complete Sections I, II and III

| ATOR (Generator completes la-r)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                                           |                                    |               |             |                      |                  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|------------------------------------|---------------|-------------|----------------------|------------------|--|--|--|--|
| US EPA ID Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | b. Manifest Docui                         | nent Number                        | c. Page 1 of  |             |                      |                  |  |  |  |  |
| relator's Name and Location: Pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ntcu                 | И                                         |                                    |               |             |                      |                  |  |  |  |  |
| If owner of the generating facility differs fro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | om the generator,    | VK<br>1 <u>11 (142) (1) 1</u><br>provide. |                                    | 7             | 7           |                      |                  |  |  |  |  |
| h Owner's Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | i Owner's Phone No : | <i>'</i>                                  |                                    |               |             |                      |                  |  |  |  |  |
| J Waste Profile #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | k Exp. Date          | I. Waste Ship<br>Description              | oping Name and                     | m. Con        | Type        | n. Total<br>Quantity | o. Unk<br>Wt/Vol |  |  |  |  |
| 421744-32706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 09/07/2              | uiz Inla                                  | e tale rusidue                     |               |             | 0-1.1                |                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                                           |                                    |               |             | 100000               | 8                |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                                           |                                    |               |             |                      |                  |  |  |  |  |
| GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. |                      |                                           |                                    |               |             |                      |                  |  |  |  |  |
| Carlos Ella lin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 . /                | 2/0                                       | 1 -1 1                             |               |             | c                    |                  |  |  |  |  |
| p. Gentelalor Authorizan Abon Name (Pris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      | डास्तरकारक ८/                             | alley the                          |               | r/ Date     | 4-1017               | /                |  |  |  |  |
| a Transpoder's Name and Address to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ator complete        | s lia-b and Trai                          | <u>isporter-completes lic</u>      | :-0)          |             |                      |                  |  |  |  |  |
| a. Transpoder's Name and Address 14 (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | YUVUÇ                |                                           |                                    |               |             |                      |                  |  |  |  |  |
| b. Phone: 161) 136-1790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                           |                                    |               |             |                      |                  |  |  |  |  |
| c. Oriver Name (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | d Signs              | galling.                                  | talling 24                         |               |             | 1-1-12               |                  |  |  |  |  |
| III. DESTINATION (General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | or complete III      | a-c and Destina                           | tion Site completes III            | ld-m\         |             |                      |                  |  |  |  |  |
| a. Disposal Facility and Site Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7                    | C US EPA Num                              |                                    |               |             |                      |                  |  |  |  |  |
| PONCE DANDFILL<br>AVE. BARAMAYA #500<br>PONCE, P.R. 00732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |                                           |                                    |               |             |                      |                  |  |  |  |  |
| I hereby carrify that the above gamed male                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dpl has been acc     | ed and to the being                       | el-el-my knowledge the for         | egging Is tru | e and acc   | บาสุโด.              |                  |  |  |  |  |
| / IIIIM MTD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4 / //               |                                           |                                    |               |             | 178                  | 112              |  |  |  |  |
| e. Name of Authorized Agent (Rrint)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | f. Signal            |                                           |                                    | g Date        |             |                      |                  |  |  |  |  |
| IV. ASBESTOS (Generator of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | completes/IVa-       | f and Operator                            |                                    |               |             | •                    |                  |  |  |  |  |
| a. Operator's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                                           | c Responsible Agency Na            | ime and Add   | liess       |                      |                  |  |  |  |  |
| - <b>(</b> ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |                                           |                                    |               |             |                      |                  |  |  |  |  |
| b. Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |                                           | d Phone:                           |               |             |                      |                  |  |  |  |  |
| <ul> <li>Special Handling Instructions and Addition</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | nal Information      |                                           |                                    |               |             |                      |                  |  |  |  |  |
| _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      | <del> </del>                              |                                    |               |             |                      |                  |  |  |  |  |
| f. ☐ Friable ☐ Non-Friable ☐ Both OPERATOR'S CERTIFICATION I hereby                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | % Fri                |                                           | % Non-Friable                      | -1-1          |             | h                    |                  |  |  |  |  |
| and are classified, packed, marked and tab<br>national governmental regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | eled and are in all  | respects in proper                        | condition for transport by h       | ighway acco   | e ol gnitra | pplicable Internati  | onal and         |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                                           |                                    |               |             |                      |                  |  |  |  |  |
| g. Operator's Name and Title (Print) "Operator refers to the company which own                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | h Signa              |                                           | endown the facility halos do-      | I. Date       |             |                      |                  |  |  |  |  |
| Charator raters to the company which own                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ia, ioasas, uhaiata  | e, conuna, ur supe                        | स्याञ्चन याच १८६ <b>० एका</b> छ छ। | HOUSTING OF I | AUDASION    | or me demonition     | UF               |  |  |  |  |



11636

If waste is asbestos waste, complete Sections I, II, III and IV II waste is <u>NOT</u> asbestos waste, complete Sections I, II and III

| I. GENERATOR (Genera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | lor completes la-r                                 | r)                                     |                                                           |                              |                                    |                                            | 10                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|-----------------------------------------------------------|------------------------------|------------------------------------|--------------------------------------------|-----------------------|
| a. Generator's US EPA ID Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    | . Manifest Docu                        | nent Number                                               | c. Page 1 of                 |                                    |                                            |                       |
| d. Generalor siname and Libertion:  12/1001 T 1002 10m 33.2  I. Phone: Sun Termina for ithe different for ithe generalog for ithe different for it |                                                    |                                        | e. Generalor's Mailing A<br>Du Yux<br>g. Phone: Sun (12)  | ddrassicu<br>2717cu          |                                    |                                            |                       |
| If owner of the generates (solite state of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L-E                                                |                                        | g. Phone: SUN (P)                                         | mon, e                       | 1 006                              | 83                                         |                       |
| and gardensung faculty children                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | om the generator, pro                              | ovide:                                 | HP                                                        |                              | 224                                | _                                          |                       |
| h. Owner's Name:<br>J. Waste Profile #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.5-5-                                             |                                        | I. Owner's Phone No :                                     | tainers                      | ,                                  |                                            |                       |
| , Total I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | k. Exp. Date  I. Waste Shipping Name a Description |                                        |                                                           |                              |                                    | n. Yotal                                   | o. Unit               |
| 421744-32706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 07/07/2412                                         | Inku                                   | uter Posidue                                              | No.                          | VT                                 | PU.S                                       | 95                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |                                        |                                                           |                              |                                    |                                            |                       |
| ENSDATORIS CENTRICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |                                        |                                                           |                              |                                    |                                            |                       |
| ENERATOR'S CERTIFICATION: I here tale law, has been properly described, cle mate is a irealment residue of a previous een trapied in accordance with the required for a conference of the description.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | y restricted hazardous<br>ements of 40 CFR 26      | s waste subject t<br>8 and is no loags | o the Land Disposal Restri                                |                              | to applicatify and wat<br>CFR 261. | ible regulations; A<br>Irrani lhat the was | ND, if this<br>le has |
| . Generalor Authorized Agent Name (Prin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | r/suczi E                                          | you core                               | uo Rodigue                                                | 7                            | 4/                                 | 13/201                                     | /                     |
| TRANSPORTER (General Sporter's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | alor completes la                                  | pature<br>a-b and Trans                | sporter completes IIc-                                    | e)                           | r. Dala                            |                                            | St. 49                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5A-57-6045                                         | -11"                                   | 1                                                         |                              | 545                                | W.                                         | -                     |
| Driver Name (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | d. Signature                                       | ~                                      | 1                                                         |                              | 4-                                 | 13-11                                      |                       |
| . DESTINATION (Generale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | or complete the c                                  | and Doetle-u                           | 500                                                       | e. Date                      |                                    | 201                                        |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | o complete ma-c                                    | US EPA Nuch                            | on Sile completes illo                                    | -g)                          | OK                                 | 1)(1                                       |                       |
| PONCE LANDFILL<br>AVE. BARAMAYA #500<br>PONCE P. P. 00732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    | (1)                                    |                                                           |                              | 11.                                |                                            |                       |
| groby cathy that title above named hald                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | M. 2                                               | and or the to                          | of my knowledge the forec                                 | joing is true                | and accur                          | ptb.                                       | 7                     |
| Name of Authorized Agent (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | f. Signature                                       |                                        | -V                                                        | g. Date                      | 11/                                | 111                                        | $\overline{}$         |
| ASBESTOS (Generalor co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ompletes IVa-f an                                  | d Operator co                          | implele (Vg-i)                                            |                              |                                    | -/                                         |                       |
| Operator's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |                                        | Responsible Agency Nam                                    | e and Addre                  | 195:                               |                                            |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |                                        |                                                           |                              |                                    | /                                          |                       |
| hone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    | d                                      | Phone:                                                    |                              |                                    | 1/                                         |                       |
| special Handling Instructions and Addition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | nal information:                                   |                                        | i moria.                                                  |                              |                                    | <u></u>                                    |                       |
| ] Friable ☐ Non-Friable ☐ Both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |                                        |                                                           |                              |                                    |                                            | - 1                   |
| ERATOR'S CERTIFICATION LIBORING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | % Friable                                          |                                        | Non-Friable                                               |                              |                                    |                                            |                       |
| ERATOR'S CERTIFICATION: I hereby do<br>l are classified, packed, marked and label<br>onal governmental regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ed and are in all respons                          | a of this consign                      | ment are fully and accurate ndition for transport by high | lly described<br>lway accord | l above by<br>ing to app           | y proper shipping<br>dicable internation   | name<br>el and        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |                                        |                                                           |                              |                                    |                                            |                       |
| ator's Name and Title (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | h. Signature                                       |                                        |                                                           | Date                         |                                    |                                            |                       |
| erator rolers to the company which owns, wation operation or both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | wases, operates, cor                               | nirals, or supervi                     | ses the lacility being demo                               | ished or ran                 | ovated, o                          | the demolition or                          |                       |

#### Smurfit

FIBRAS INTERNACIONALES DE PUERTO RICO

P.O. BOX 7432 PONCE P.R. 00732

TELF. (787) 812-0550 / 612-0545 FAX No. (787) 812-0540

FAX MESSAGE 42319

FECHA / DATE:

noviem bre 11, 2015

PARA / TO

Figueroa, Yvette

COMPARIA

CCLINSERCO

FAX Non

(787) 892-4112 y figueros@cclind.com

DE / FROM

JOHN RIVERA

REF

Compres cinco eños (Expresado en T/m)

| TOTAL NUMERO DE PAGINAS | 1 | (INCLUYENDO ESTA) |
|-------------------------|---|-------------------|
| TOTAL NUMBER OF PAGES   |   | (INCLUDING THIS)  |

#### MENBAJE

MATERIAL

| Periodo | Papel Blanco | 000 |
|---------|--------------|-----|
| 2010    | 421          | 0   |
| 2011    | 566          | 0   |
| 2012    | 523          | 14  |
| 2013    | 486          | 14  |
| 2014    | 492          | 6   |
| 2015    | 563          | 0   |
|         | 3,051        | 34  |

ENVIADO POR John Rivera

#### SERVICIOS FRONT LOADERS DE 8 YARDAS

| Fechas Aproximadas                 | Semanas | Servicios por<br>semana | Yardas<br>Cúbicas | Total de yardas<br>por año |
|------------------------------------|---------|-------------------------|-------------------|----------------------------|
|                                    | Ĭ       |                         |                   |                            |
| 2011                               | 52      | 3                       | 8                 | 1248                       |
| 2012                               | 52      | 3                       | 8                 | 1248                       |
| 2013                               | 14      | 3                       | 8                 | 1248                       |
| 2013                               | 38      | 2 _                     | 8                 | 608                        |
| 2014                               | 52      | 2                       | 8                 | 832                        |
| 2015 (hasta el 15 de mayo de 2015) | 20      | 2                       | 8                 | 320                        |
| 2015 (al 31 de octubre de 2015     | 24      | 3                       | 8                 | 576                        |
|                                    |         | TOTAL DE YARDA          | AS                | 6,080                      |
|                                    |         | AVERAGE                 |                   | 1,216                      |

Dei

# Activity by Contract and Waste Generator

CCL Label: 14084

Special Waste Only Detail Report

| Ticket        | Meterial                      | Reference               |    | Tons  | Traching  | Tracking | Billing  | Billing  |
|---------------|-------------------------------|-------------------------|----|-------|-----------|----------|----------|----------|
| CT - 4217Y43; | Contract - 4217Y412708-VACUUM | Ticket Count            | 2  | 23.54 | 5, 506 00 |          | 5.117.20 |          |
| Generator     | 4294 CCL INSERTCO             | тсо                     |    |       |           |          |          |          |
| \$55741       | FEE-HALLOTRANSTRUCK           | MA118365T 6432          |    | 8     | 8         | <b>*</b> | 100      | Ę        |
| \$55741       | SW-SPECIAL WASTE-LIQUID       | MA11035/57 6432         |    | 9.00  | 00,009    | : 3      | 00 009   | i d      |
| 555741        | SW-SPECIAL WASTE-LOUID        | MAI1836/5T 5412         |    | 27.5  | 80        | ਰ        | 22       | 2        |
| 588257        | FEE-HAULTHANS/TRUCK           | MA. 10544/ST 10096      |    | 80    | 81        | వ        | 89       | <b>a</b> |
| 584257        | EW-EPECIAL WASTE-LIQUED       | MA.1854457 10390        |    | 800   | 800 00    | ฮ        | 800 008  | ថ        |
| 544257        | SW-EPECIAL WASTE LIQUID       | #A.1858457 10686        |    | 3.38  | 900       | ಕ        | 3.39     | Z        |
| 629743        | FEE HALLTRANS/TRUCK           | HASOIOTIST 15102        |    | 900   | 8         | ង        | 81       | \$       |
| 625743        | SW-SPECIAL WASTE-LIGHD        | 44.30107/ST 1510Z       |    | 88    | 00 000 1  | ថ        | 00 000'1 | ď        |
| 629743        | BW-GPECUL WASTE-LOUID         | 20151 15/2010CY7        |    | 3.    | 000       | ថ        | 4.55     | ¥        |
| 897708        | FEE+MUTRANSTRUCK              | MA36823/ST 17636        |    | 200   | 8         | វ        | 100      | 2        |
| 807788        | SW-SPECIAL WASTE-LOUD         | MA368235T 17538         |    | 27.6  | 600.00    | 75       | 00 009   | ਰ        |
| 1024165       | FEEHULTRANSTRUCK              | MAA.1978-57 15985       |    | 000   | 1.00      | វ        | 8        | ដ        |
| 1024163       | SW-SPECIAL WASTE-LIQUID       | 144411765T 18965        |    | 320   | 00 001    | ថ        | 900 009  | ತ        |
| 1063606       | FEE HALLTRANSTRUCK            | ATE 4 54 90 had 2 1 900 |    | 000   | 8         | វ        | 80       | వ        |
| 9075701       | SWEPECAL WASTE-LIQUED         | medi549051.21900        |    | 5.26  | 600 000   | ઇ        | 00 000   | ಚ        |
|               |                               |                         |    |       |           |          |          |          |
|               | •                             | Grand Totals            | 11 | 23.54 | 6 00      | 3        | 00:00    | 뱀        |
|               |                               |                         |    |       | 5,100 00  | CL       | 5,100.00 | 9        |
|               |                               |                         |    |       |           |          | 4 20     | ŀ        |

413711 413711 413711 12472 12473 12473 22473 22473 22473 22473 62574 62574 62574 62574 62574

Page 1 of 1

| US EPA ID Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ·                                                                                                                                      | il wasie is 850es<br>il wasie is <u>NOT</u> a                     | los wasto, co<br>sbestos was | Xinplote Sections (<br>its. complete Secti | . II, III and IV               |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------|--------------------------------------------|--------------------------------|--|--|--|
| ad LFA ID (dumbar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ь.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Manifest Document Number                                                                                                               |                                                                   | c. Page                      | 1 of                                       | CITE 7, II BING III            |  |  |  |
| spalar's Name and Logation in Section 1997 (197) 890 - 10168                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1. Phone: (187) 892-1268 (418362 SUNGMON) P. Phone: (187) 892-1268 (4183 |                                                                                                                                        |                                                                   |                              |                                            |                                |  |  |  |
| If owner of the generating facility differs fro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | O the nenerator now                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | g. Phone:                                                                                                                              |                                                                   | Sur                          | wy mur). P                                 | (1)683                         |  |  |  |
| h. Owner's Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | are generator, prov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                        |                                                                   |                              |                                            | - 000                          |  |  |  |
| J. Waste Profile #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | k. Exp. Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | I. Owner's Phon                                                                                                                        |                                                                   |                              |                                            | ł                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | л. С.р. Беш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | I. Waste Shipping Name and<br>Description                                                                                              |                                                                   | ontainers                    | n. Total                                   | o. Unit                        |  |  |  |
| 42174432706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11/9/2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ink Resid                                                                                                                              | 46 01                                                             | VT                           | 800G/2                                     | WtVol                          |  |  |  |
| *1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                        |                                                                   |                              |                                            |                                |  |  |  |
| GENERATOR'S CERTIFICATION: I hereby state law, has been properly described, classwaste is a treatment residue of a praviously reen treated in accordance with the requirem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | nents of 40 CFR 268                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | e named material is not a hazarde and is in proper condition for tran waste subject to the Land Disposand is no longer a hazardous was | ous waste as defin<br>sportation accordi<br>at Restrictions. I co | erlify and wa                | mant that the was                          | Hoable<br>ND, K this<br>te has |  |  |  |
| . Generator Authorized Agent Name (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | q. Sign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | aluro                                                                                                                                  | 12.5                                                              |                              | 5-15                                       |                                |  |  |  |
| TRANSPORTER (Generalor completes lia-b and Transporter completes lic-e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                        |                                                                   |                              |                                            |                                |  |  |  |
| Transporter's Name and Address:    Main and Address:   The Completes   Complet |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                        |                                                                   |                              |                                            |                                |  |  |  |
| took L. Del                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11/12 1/21 12m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                        |                                                                   |                              |                                            |                                |  |  |  |
| Driver Name (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | d. Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | farede)                                                                                                                                | e, Dala                                                           | 2 C/                         | 20157                                      |                                |  |  |  |
| I. DESTINATION (Generator Disposal Facility and Site Address: 7787                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | complete lila-c a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | nd Destination Site comple                                                                                                             | ties Illd.e)                                                      |                              |                                            |                                |  |  |  |
| PONCE LANDFILL<br>AVE. BARAMAYA #500<br>PONCE, P. R. 00737                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F-58-0008                                                                                                                              | y Indication Space                                                |                              | 1/2                                        |                                |  |  |  |
| ereby certify that the above darket material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | la Liven accepted a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | and to the best of my knowledge                                                                                                        | lbs formation I have                                              |                              |                                            | _                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | w                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                        | are rusegoing is (4)                                              | A and accoun                 | al6.                                       |                                |  |  |  |
| Name of Authorized Agent (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | f. Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                        |                                                                   |                              | 11                                         |                                |  |  |  |
| ASBESTOS (Generalor com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | pletes IVa-f and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Open for complete IVa IV                                                                                                               | g. Date                                                           | 17                           |                                            |                                |  |  |  |
| Operator's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C. Resonnsible Age                                                                                                                     |                                                                   |                              |                                            |                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | c. Responsible Ager                                                                                                                    | icy ivame and Add                                                 | iress:                       |                                            |                                |  |  |  |
| hone:<br>ipecial Handling Instructions and Additional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | d. Phone:                                                                                                                              |                                                                   |                              |                                            |                                |  |  |  |
| ] Friable   Non-Friable   Both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                        |                                                                   |                              |                                            | }                              |  |  |  |
| -RATOR'S CERTIFICATION II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | % Friable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | % Non-Friable                                                                                                                          |                                                                   |                              |                                            |                                |  |  |  |
| RATOR'S CERTIFICATION: I hereby decise one classified, packed, marked and labeled anal governmental regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | and are in all respect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | a in proper condition for transpor                                                                                                     | accurately describe                                               | ed above by                  | proper shipping n                          | B/ne                           |  |  |  |
| Garacht III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E. Carriero                                                                                                                            | 7 mgmway acco                                                     | rung to appli                | cable internations                         | al end                         |  |  |  |
| Gaminge Name and William                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | * .                                                                                                                                    |                                                                   |                              |                                            |                                |  |  |  |
| perator's Name and Title (Print) water refers to the company which owne les                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | h. Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                        | I. Data                                                           |                              |                                            |                                |  |  |  |
| ration refers to the company which owns, les vation operation or both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ors, or supervises the facility bein                                                                                                   | g demolished or re                                                | novated, or                  | lhe demolition or                          |                                |  |  |  |
| 5/10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | URN TO OPERATOR                                                                                                                        |                                                                   |                              |                                            | LE11APP                        |  |  |  |



If waste is asbestos waste, complete Sections I, II, III and IV If waste is  $\underline{\text{NOT}}$  asbestos waste, complete Sections I, II and III

41979

| GENERATOR (Genera                                                                                                                                                      | for completes la-ri                                          | )                                   |                                                                      |                                        |                          |                                                |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------|----------------------------------------|--------------------------|------------------------------------------------|-------------------------------------|
| a. Generator's US EPA ID Number                                                                                                                                        |                                                              | Manifest Docu                       | iment Number                                                         |                                        | J a Baa                  | - 44                                           |                                     |
| d Generalore Name and Law                                                                                                                                              |                                                              |                                     |                                                                      |                                        | c Page                   | 2 1 0[                                         |                                     |
| d. Generalor's Name and Location:  ET RATIO INUSTING  1. Phone: (1/1) 8/92 - 1208  If owner of the generating facility differs to                                      | Pank Con<br>Sin gein                                         | 302,<br>00,12                       | e Generalos Ma                                                       |                                        | Tust                     | nel Pan                                        | K                                   |
| and a second division in                                                                                                                                               | rom the generator, prov                                      | vide                                |                                                                      | 19011                                  | 0/ /. 1                  | ,                                              | <del></del>                         |
| h. Owner's Name                                                                                                                                                        |                                                              |                                     | r Owner's Phone N                                                    | la.                                    |                          |                                                |                                     |
| j. Wasie Profile #                                                                                                                                                     | k Exp Oate                                                   | Waste Shi                           | pping Name and                                                       |                                        | ntaingrs                 | n Total                                        |                                     |
|                                                                                                                                                                        |                                                              | Description                         | *                                                                    | No                                     | Тура                     | Quantity                                       | o. Unit<br>Wt/Vol                   |
| 42174432706                                                                                                                                                            | 11/9/2015                                                    | Ink                                 | Nosilves                                                             | 01                                     | VT                       | 800 Gles                                       |                                     |
| CEMEDATORIS CEDITION                                                                                                                                                   |                                                              |                                     |                                                                      | V                                      |                          |                                                | (f)                                 |
| GENERATOR'S CERTIFICATION I heret state law, has been properly described, cla waste is a treatment residue of a previously been treated in accordance with the require | y restricted hazardous<br>ements of 40 CFR 288               | and is no long                      |                                                                      |                                        | tify and wi<br>CFR 281   | able regulations; ,<br>arrant that the wa<br>· | plicable<br>AND, if this<br>ste has |
| p. Generator Authorized Agent Name (Prin                                                                                                                               | it) n. Sinn                                                  | plura                               | u allen f                                                            | Lebra                                  | 8-                       | 5-14                                           |                                     |
| II. TRANSPORTER (Gener.  a. Transporter's Name, and Address:                                                                                                           | ator completes lla                                           | -b and Tran                         | Snoder complete                                                      | s lle el                               | r. Dale                  |                                                |                                     |
| a. Transporter's Name, and Address:/                                                                                                                                   | 1000                                                         |                                     | Species Collipiete                                                   | 3 110-61                               |                          | <del></del>                                    |                                     |
| 1114431101 1146                                                                                                                                                        | TRUVUC                                                       |                                     |                                                                      |                                        |                          |                                                |                                     |
| b. Phone: (79)) 836-1                                                                                                                                                  | 290                                                          |                                     |                                                                      |                                        |                          |                                                |                                     |
| V                                                                                                                                                                      |                                                              |                                     |                                                                      |                                        |                          |                                                |                                     |
| c. Driver Name (Print)                                                                                                                                                 | * * Vcz                                                      | S 09                                | <del>_</del>                                                         | 1                                      |                          |                                                | /                                   |
|                                                                                                                                                                        | d Signature                                                  |                                     |                                                                      | e Date                                 |                          |                                                | /                                   |
| Contraction (General                                                                                                                                                   | or completé Illa-c a                                         | ind Deslina                         | lion Site complete                                                   | es IIId-q)                             |                          |                                                |                                     |
| PONCE LANDFILL<br>AVE. BARAMAYA #500<br>PONCE, P.R. 00732                                                                                                              | 6                                                            | US EPA Numi<br>DF-58-000            | ber d Discrepancy                                                    | ndication Space                        |                          |                                                |                                     |
| b.                                                                                                                                                                     | (L. A.)                                                      |                                     |                                                                      |                                        |                          |                                                |                                     |
| hereby caruly that the above named mater                                                                                                                               | lai has been accepted                                        | 20d to the bas                      | t of my knowledge the                                                | foregoing is true                      | and accu                 | rate.                                          |                                     |
| \#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\                                                                                                                                   | <u> </u>                                                     | 11                                  |                                                                      |                                        | (10)                     | 15/14                                          |                                     |
| B. Name of Authorized Agent (Print)                                                                                                                                    | f Signature                                                  | /4                                  |                                                                      | g Date                                 | 001                      | 17/19                                          |                                     |
| V. ASBESTOS (Generator co                                                                                                                                              | ompletes IVa-f and                                           | Operator o                          | omplete (Vg-I)                                                       |                                        |                          |                                                |                                     |
| . Operator's Name and Address                                                                                                                                          |                                                              |                                     | Responsible Agenc                                                    | Name and Add                           | 920                      |                                                |                                     |
|                                                                                                                                                                        |                                                              | ĺ                                   |                                                                      |                                        |                          |                                                |                                     |
| o. Phone: 🚤                                                                                                                                                            |                                                              |                                     |                                                                      |                                        |                          |                                                | J                                   |
| Special Handling Instructions and Addition                                                                                                                             | al Information                                               |                                     | Phone                                                                |                                        |                          |                                                | ĺ                                   |
|                                                                                                                                                                        | or medicality)                                               |                                     |                                                                      |                                        |                          |                                                |                                     |
| ☐ Friable ☐ Non-Friable ☐ Both                                                                                                                                         |                                                              |                                     |                                                                      |                                        |                          |                                                |                                     |
| -15-1 1400 C 1400 17 180 C 1 1800                                                                                                                                      | % Edabia                                                     |                                     | 10.00                                                                |                                        |                          |                                                |                                     |
| PERATOR'S CERTIFICATION: I hareby de<br>nd are classified, packed, marked and label<br>ational governmental regulations.                                               | % Friable dare that the contents and are in all respections. |                                     | l Non-Friable<br>iment are fully and ac<br>oridition for transport t | curalely describe<br>ly highway accord | d above b                | y proper shipping<br>Mcable internation        | name<br>nal and                     |
| PERATORIS CERTIFICATION ALLES                                                                                                                                          |                                                              |                                     |                                                                      | curalely describe<br>ry highway accon  | d above b<br>dang to app | y proper shipping<br>Hicable internation       | name<br>nal and                     |
| PERATOR'S CERTIFICATION: I hareby de<br>und am classified, packed, marked and label<br>sational governmental regulations.                                              | clare that the contents<br>ed and are in all respec          | of this consign<br>cls in proper ca | ment are fully and ac<br>andition for transport b                    | y gimey accom                          | pard to abl              |                                                | nal and                             |

-------



If waste is asbestos waste, complete Sections I. II, III and IV If waste is  $\underline{\text{MOT}}$  asbestos waste, complete Sections I, II and III

36923

| I. GENERATOR (Genera                                                                     | tor comp                                                               | letes la-r)             |                              |                                                        |                                    |                          |                                          |          |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------|------------------------------|--------------------------------------------------------|------------------------------------|--------------------------|------------------------------------------|----------|
| a Generator's US EPA ID Number                                                           | a Generator's US EPA ID Number b Manifest Document Number c. Page 1 of |                         |                              |                                                        |                                    |                          |                                          |          |
| d) Consented the contract of                                                             |                                                                        |                         |                              |                                                        |                                    | G. Fage                  | E I DI                                   |          |
| di Generaloris Marrie, and Location  El-Arrivo Industry  (. Phone: 1) 892-1264 Sür       | GI Paric                                                               | CON H                   | 302                          | e Generalor's Mentr                                    | Hom                                | <del></del>              | A.                                       |          |
| If owner of the generalise facility and                                                  | yerm                                                                   | n, 12                   |                              | g Phone                                                | Sino                               | reimo                    | inifk                                    |          |
| warmen or any Sourcement recently cuttate t                                              | rom the gen                                                            | inision, prov           | rida                         | Y2                                                     |                                    |                          |                                          |          |
| h. Owner's Name: J. Waste Profile #                                                      | t. Eur G                                                               |                         |                              | I Owner's Phone No                                     | 55                                 |                          |                                          |          |
| J. Trade Filling W                                                                       | k Exp D                                                                | late                    | I. Waste Ship<br>Description | ping Name and                                          | _m Co                              | ntainers                 | n Tolal                                  | o Unit   |
|                                                                                          |                                                                        |                         |                              |                                                        | 140                                | Тура                     | Quantity                                 | WWol     |
| 421144-32706                                                                             | 119                                                                    | 2015                    | Ink                          | Widue                                                  | 01                                 | VT                       | 200                                      |          |
|                                                                                          | '                                                                      |                         |                              |                                                        |                                    |                          |                                          |          |
|                                                                                          |                                                                        |                         |                              |                                                        |                                    |                          |                                          |          |
|                                                                                          |                                                                        | - 1                     |                              |                                                        |                                    |                          |                                          |          |
| GENERATOR'S CERTIFICATION   I here state law, has been properly described, cl            | by cartify th                                                          | El the above            | a namedt                     |                                                        |                                    |                          |                                          |          |
| state law, has been properly described, cl<br>waste is a treatment residue of a previous | assilled and                                                           | packaged,               | and is in prope              | iei is not a hazerdous w<br>ir condition for transport | rasta es defina<br>Intercara nolla | d by 40 CF               | R 261 or any ap                          | plicable |
| wasta is a treatment residue of a previous beon treated in accordance with the requir    | y restricted<br>ements of 4                                            | hazardous<br>10 CFR 268 | waste subject I              | o the Land Disposal Re                                 | strictions. I co                   | lify and w               | arrant that the wa                       | iste has |
| 17 St LUVINE MUMGARI                                                                     |                                                                        |                         |                              | - G Limitarocora Magrie N.                             | S UBRING DY 40                     | CFR 261.                 |                                          | 10       |
| p. Generator Authorized Agent Name' (Print) G. Sjonsture                                 |                                                                        |                         |                              |                                                        |                                    |                          |                                          |          |
| IL TRANSPORTER (Gara)                                                                    |                                                                        | pietes ila              | -b and Tran                  | Sporter completes                                      | llc.e.\                            | r. Dale                  | 14                                       |          |
| Parisi a tratifo allo Addition.                                                          |                                                                        |                         |                              | - MILL COMPACION                                       | 110-61                             |                          |                                          |          |
| DTranspart<br>field 977-0502                                                             |                                                                        |                         |                              |                                                        |                                    |                          |                                          |          |
| b.Phone: (75) \$31-050 2                                                                 |                                                                        | البار                   | D- 11348                     | ,                                                      |                                    |                          |                                          | - 1      |
| XTVIN CILL                                                                               | 12,                                                                    |                         | 17                           |                                                        | J. Mary                            |                          |                                          |          |
| c. Driver Name (Print)                                                                   | - d                                                                    | ויליעת<br>Signaturo     | I- Also                      |                                                        | 7                                  | 12/5-1                   | 13                                       | J        |
| III. DESTINATION (General                                                                | or comple                                                              | iledila-c a             | and Destinat                 | lon Ciln namelatara                                    | e. Data                            |                          |                                          |          |
| a cobcen tacin's frin 200 Ministra                                                       | 787) 841-77                                                            | 75 C.                   | US EPA Numb                  | or d Distractory los                                   | iiiα-g)                            |                          |                                          |          |
| PONCE LANDFILL AVE. BARAMAYA #500                                                        |                                                                        | Y                       | /                            | 10 Into                                                | W ( W)                             | en s                     | PERCON                                   | 1        |
| AVE BARIMAYA #500<br>PONCE P.R. 00732                                                    |                                                                        | lV 10                   | DF-58-0001                   | 3 Churce                                               | ado del                            | monif                    | ertu                                     | 1        |
| I hereby contry that the above maned male                                                | riel has bee                                                           | 1-1111                  | To the second                |                                                        |                                    |                          |                                          |          |
| -111/11 1 1/1/11/-                                                                       | 7/                                                                     | 1701                    | THU ID THE DESI              | of my knowledge the fi                                 | orogoing is tru                    | and accu                 | rsio.                                    |          |
| a. Name of Authorized Agent (Print)                                                      |                                                                        | enuJangli               |                              |                                                        | 1                                  | flo 3                    | )   15                                   |          |
| IV. ASBESTOS (Generator c                                                                | omoletes                                                               | Mart pod                | Oppositor                    |                                                        | g Date                             | 1                        |                                          |          |
| a. Operator's Name and Address:                                                          |                                                                        | · v a-1 e110            |                              |                                                        |                                    |                          |                                          |          |
| •                                                                                        |                                                                        |                         | -                            | . Responsible Agency N                                 | bbA bas emse                       | TOS S                    |                                          |          |
| 1                                                                                        |                                                                        |                         | }                            |                                                        |                                    |                          |                                          | -        |
| b. Phone:  a. Special Handling instructions and Addition                                 | al lala                                                                | 1                       |                              | Phone                                                  |                                    |                          |                                          |          |
| t                                                                                        |                                                                        | ממ:                     |                              |                                                        |                                    |                          |                                          |          |
| . D Friable D Non-Frieble D Both                                                         |                                                                        | % Friable               |                              |                                                        |                                    |                          |                                          | -        |
| OPERATOR'S CERTIFICATION Chambers                                                        | -1 11                                                                  |                         |                              | Non-Friable                                            | calalu das III                     | el estre i               |                                          |          |
| and are classified, packed, marked and labe<br>national governmental regulations.        | led and are                                                            | In all respen           | cts in proper co             | ndition for transport by                               | highway accor                      | qjuð to abt<br>a accne p | y proper shipping<br>olicable internatio | nat and  |
| arlos Martura To                                                                         |                                                                        | ules 9                  | Matin                        | 1.0                                                    | 11-5                               | 13                       |                                          |          |
| Operator's Name and Title (Print)     Operator refers to the company which owns          | h. S                                                                   | ignatura                |                              |                                                        | I. Date                            |                          |                                          |          |
| *Operator refers to the company which owns<br>renovation operation or both               | . 100305, QD                                                           | चा छ। हर्ड, CDN         | uois, or supervi             | ses the facility being de                              | malished or re                     | novaled, d               | r the demolition (                       | 00       |



0107د

If waste is asbestos waste, complete Sections I. II, III and IV If waste is  $\underline{\text{MOT}}$  asbestos waste, complete Sections I, II and III

| GENERATOR (Generals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | or completes la                                          | 3-r)                     | *                                                                               |                               |                                            |                                            |                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------|-------------------------------|--------------------------------------------|--------------------------------------------|----------------------------------|--|
| erator's US EPA ID Number b. Manifest Occument Number c Page 1 of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          |                          |                                                                                 |                               |                                            |                                            |                                  |  |
| Generator's Name and Logation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Grk Tim#                                                 | 162                      | e Generator's Mailing A                                                         | Address                       |                                            | -                                          |                                  |  |
| f. Phone: ((v) 32.2 If owner of the generating facility differs fro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | n izin                                                   | in. 12                   | g Phone TIM                                                                     | PIMI                          | n. Ph                                      | . 66683                                    |                                  |  |
| h. Owner's Name: (12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | יית the generator, p                                     | provide*                 |                                                                                 | 1-                            | 10.                                        | 277                                        | ]                                |  |
| Waste Profile #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | k, Exp. Date                                             | I. Waste Shir            | pping Name and                                                                  | I m. Cor                      | ntainers                                   | n Total                                    | ,                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          | Description              |                                                                                 | Na                            | Тура                                       | Quantity                                   | a. Unit<br>WVOI                  |  |
| 4717 1-32706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 7 2015                                                | 5 Ink                    | Mosilue                                                                         | (I)                           | 1                                          | 1,000                                      | 9/5                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                          |                                                                                 |                               |                                            |                                            |                                  |  |
| GENERATOR'S CERTIFICATION: I hereb stole law, has been properly described, clawaste is a treatment residue of a previously been treated in accordance with the require and the stole of the | y restricted hazardo                                     | and marks of place       | at condition in assable to                                                      | OU BCCOLQIV                   | g to applica<br>rtify and wa<br>) CFR 261. | able regulations, A<br>arrant that the was | licable<br>ND, If this<br>Na has |  |
| p. Generalor Authorized Agent Name (Print) q. Signature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          |                          |                                                                                 |                               |                                            |                                            |                                  |  |
| II. TRANSPORTER (General B. Transporter's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | lla-b and Tran           | Isporter completes lic                                                          | :-e)                          | r. Upta                                    |                                            |                                  |  |
| In list in Hydrava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | _                                                        |                          |                                                                                 |                               |                                            |                                            |                                  |  |
| b. Phone: 7.11 136-12-90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | · · · · · · · · · · · · · · · · · · ·                    | 1                        | 1                                                                               | <del></del>                   |                                            |                                            |                                  |  |
| c Driver Name (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | d. Signate                                               | / /                      |                                                                                 |                               | <u> </u>                                   | 2-13/                                      |                                  |  |
| III. DESTINATION (Generale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                          | lion Site completes III                                                         | e Date                        |                                            | _/_                                        |                                  |  |
| a. Disposal Facility and Site Address: (7 PONCE LANDFILL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 87) 841-7775                                             | c. US EPA Num            | iber d. Discrepancy Indica                                                      | ation Space                   | -                                          | <del>/</del>                               |                                  |  |
| AVE. BARAMAYA \$500<br>PONCE, P. R. 00732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          | IDF-58-000               |                                                                                 | 20                            | /                                          |                                            |                                  |  |
| I hereby cartify that the above named materi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | a has been accer                                         | ated and to the be:      | st of my knowledge the fore                                                     | บป ละ ถูกเออูธ                | e and acco                                 | irale , wi                                 |                                  |  |
| e. Name of Authorized Agent (Priht)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | f. Signatur                                              | 7                        | /                                                                               |                               |                                            | X 17                                       |                                  |  |
| IV. ASBESTOS (Generator co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ombletes IVa-f                                           | and Operator             | acmololo IVa IV                                                                 | g Date                        |                                            |                                            |                                  |  |
| a. Operator's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7                                                        |                          | c. Responsible Agency Nar                                                       | me and Add                    |                                            |                                            |                                  |  |
| *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | {                                                        |                          | an i factorial a tale a tale i seri                                             | IHE BIN NO                    | 1853                                       |                                            |                                  |  |
| b. Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | b. Phone:                                                |                          |                                                                                 |                               |                                            |                                            |                                  |  |
| e. Special Handling Instructions and Addition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ial Information:                                         |                          | d. Phone:                                                                       |                               |                                            |                                            |                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                          |                                                                                 |                               |                                            |                                            |                                  |  |
| f. Friable Non-Friable Both OPERATOR'S CERTIFICATION: I hereby de and are classified, packed, marked and label netlonal governmental regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | % Friab<br>sclare that the cont<br>led and are in all re |                          | % Non-Friable<br>priment are fully and accura<br>condition for transport by hig | itely describ-<br>gliway acco | ed above b<br>rding to ap                  | y proper shipping<br>plicable internatio   | name<br>nal and                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 33.7                                                     |                          |                                                                                 |                               |                                            |                                            |                                  |  |
| Operator's Name and Title (Print)     Operator raises to the company which owns, reflevation operation or both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | h, Signatui<br>, leases, operates,                       | re<br>controls, or super | vises the facility below der                                                    | i. Date                       | nnovaled (                                 | or the demnillion                          |                                  |  |

If wasta is asbestos waste, complete Sections I, II, III and IV if waste is  $\underline{NOT}$  asbestos wasta, complete Sections I, II and III

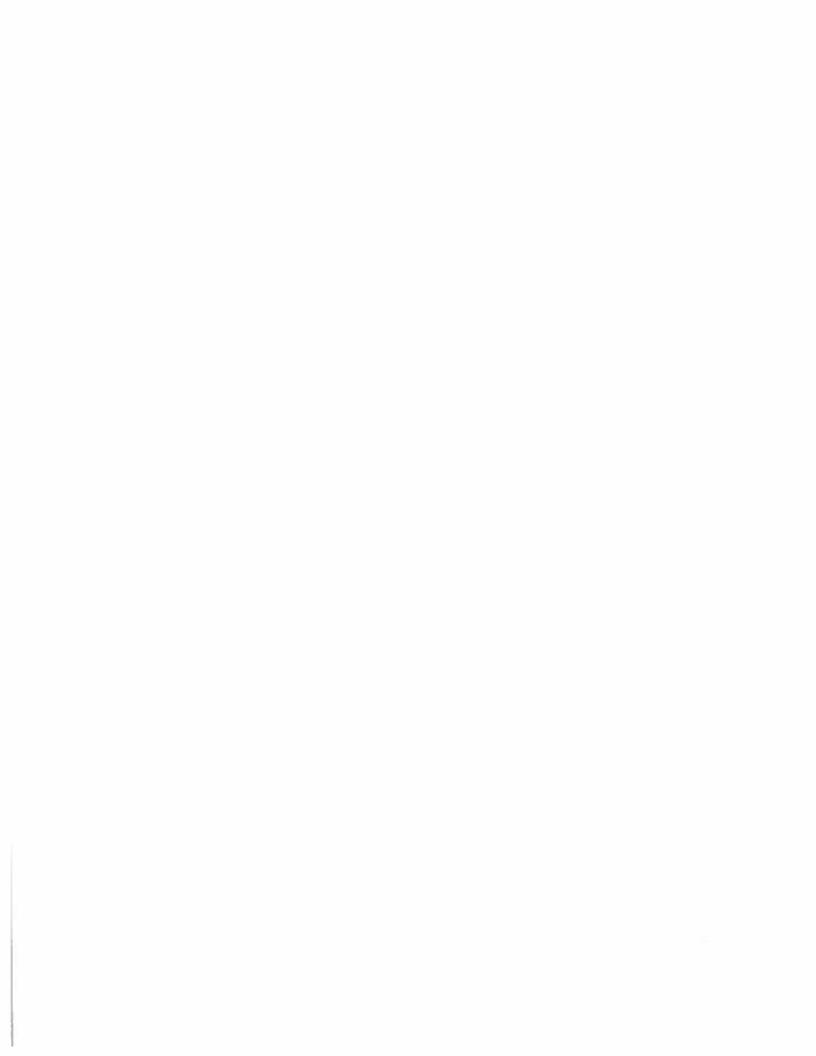
| ATOR (General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | or completes la-r)                              |                                           |                                                             |                             |                          |                     |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|-------------------------------------------------------------|-----------------------------|--------------------------|---------------------|--------------|
| US EPA ID Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 | Manifest Docume                           |                                                             |                             | c. Page                  | l of                |              |
| nerator's Name and Location:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                                               |                                           | e Generator's Malling Add                                   | ido35:                      | 177.                     |                     |              |
| Collinser                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TERCI Plack                                     | .                                         | CGL                                                         | Inser                       | TO                       |                     |              |
| 1 Phone 1001 # 902 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 | gerence, A                                | n Phone: San                                                | erm                         | on, P                    | 1                   | :            |
| If owner of the generating facility differs in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | om the generator, prov                          | `                                         | /                                                           |                             |                          |                     |              |
| h Owner's Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 | I. Waste Shipp                            | i Owner's Phone No:                                         | m. Con                      | tainers                  | n. Total            | p. Unkt      |
| Waste Profile #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | k Exp. Date                                     | Description                               | ind traiting stree                                          | No.                         | Туре                     | Quantity            | Wt/Val       |
| 421744-32706                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 09/07/201                                       | 2 tn/C                                    | Nasidue                                                     | 01_                         | VT.                      | 950.0               | 7            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                                           |                                                             |                             |                          | 10000               | 7            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                                           | 8                                                           |                             |                          |                     |              |
| GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a pravious been treated in accordance with the requi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | assified and packaged<br>by restricted hazemby: | t, and is in proper<br>• waste subject to | r condition for transportation<br>the Land Disposal Restric | n accoroini<br>ctions   cai | g to appac<br>nify and w | anant that the wa   | AND. II UIIS |
| Carlos & Il. Line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1. 0.                                           | /                                         | 1+1                                                         | ļ                           |                          |                     |              |
| p. Generalor Authorized Aboni Naline (Print) (g. Signatura) (Malen free ri Date 1-20) ?  II. TRANSPORTER (Generator completes lie-b and Transporter completes lic-e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                 |                                           |                                                             |                             |                          |                     |              |
| II. TRANSPORTER (Gene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | rator completes u                               | a-b and Tran                              | sbottat southistas iic.                                     | 41                          |                          |                     |              |
| a Transpoder's Name and Address Ty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | JYUVOC                                          |                                           |                                                             |                             |                          |                     |              |
| b. Phone: 181) 136-1790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 |                                           |                                                             |                             |                          | 1                   |              |
| William garriba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | W                                               | talling.                                  |                                                             | 24                          | <u> </u>                 | -12                 |              |
| c. Oriver Name (Print)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | d. Signatur                                     |                                           | Ver Cita completes III                                      | d al                        |                          |                     |              |
| III. DESTINATION (General a. Disposal Facility and Site Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 | c. US EPA Num                             |                                                             |                             | a:                       |                     |              |
| PONCE/DANDFILL /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 | 0 00 0 71710                              |                                                             |                             |                          |                     |              |
| AVE. BARAMAYA #500<br>PONCE, P.R. 00732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 |                                           |                                                             |                             |                          |                     |              |
| b. I hereby carrily that the above gamed mp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (eripi has been accept                          | ed and to the be                          | it stoy knowledge the lore                                  | qualing is in               | ue and ac                | curate.             |              |
| 7 TIMAN WHY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4 /                                             |                                           |                                                             |                             | /                        | 128                 | 1/12         |
| a. Nama el Authorized Agent (Rrint)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I. Signature                                    |                                           | -1-1-01-0                                                   | g. Date                     | <u>l</u>                 | 1 /                 |              |
| IV. ASBESTOS (Generator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | completes/IVa-I a                               | and Operator                              | complete IVg-I)<br>c. Responsible Agency Na                 | me and Ad                   | dragg                    |                     |              |
| a. Operator's Name and Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                                           | r usshousing viland in                                      | and bio ru                  | 01630                    |                     |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 | 1                                         | d Phone:                                                    |                             |                          |                     |              |
| b. Phone:     e Special Handling Instructions and Additional Additions and Additional Addition | tonal information                               |                                           | e titere                                                    |                             | <del></del>              |                     |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                                           |                                                             |                             |                          | <del></del>         |              |
| f. ☐ Friable ☐ Non-Friable ☐ Bot OPERATOR'S CERTIFICATION I hereb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | e doubles that the east                         | ante of this consi                        | % Non-Friable<br>coment are fully and accur                 | ately descr                 | ibed abov                | e by groper stripo  | ing name     |
| and are classified, packed, marked and in<br>national governmental regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | sheled and are in all re                        | spects in proper                          | condition for transport by h                                | ilghway act                 | cording to               | applicable Interna  | bonal and    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                                           |                                                             |                             |                          |                     |              |
| g. Operator's Name and Title (Print) *Operator raiers to the company which or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | h Signatu                                       | ro                                        | ndeps the facility heigh de-                                | i. Date                     | r mnovale                | d, or the demolitic | n or         |
| *Operator refers to the company which or renovation operation or both                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | wits, loases, Operates,                         | Continues, or supe                        | in storage and received coming con                          | TOTAL DE C                  |                          | -1 a to Gattelling  |              |



11636

If waste is asbestos waste, complete Sections I, II, III and IV if waste is  $\underline{NOT}$  asbestos waste, complete Sections I, II and III

| I. GENERATOR (Gene                                                                                                                                                    | rator completes la-r                  | 1                    |                              |              |             |                    |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|------------------------------|--------------|-------------|--------------------|---------------------|
| a. Generator's US EPA ID Number                                                                                                                                       |                                       | /<br>. Manifest Docu | mont file—has                |              |             |                    |                     |
| d Generalore Name and the st                                                                                                                                          | ľ                                     |                      |                              |              | c. Page     | t of               |                     |
| d. Generalor's Name and Libration:  12/101 + 1/102 1cm 33 1. Phone: Sin Jerman, P                                                                                     | <i>(</i> )                            | 0                    | a. Generatora Malfino A      | vidrase:     |             |                    |                     |
| 12000 # 102 1cm 33                                                                                                                                                    | ·2 ( (tirgue (m)                      | (Vart)               | (ازاریان)                    | ELITC        | 7           |                    |                     |
| 1. Phone: Sun (1erman, 1)                                                                                                                                             | N.                                    | •                    | So. Rox                      | 371.         | lat desse   | Er m               |                     |
| If owner of the generating facility differe                                                                                                                           | from the generator, or                | ulda.                | g. Phone: Sun ge             | Yrxr), t     | 14 006      | 13                 |                     |
| h. Owner's Name:                                                                                                                                                      | man are generator, pro-               | vide;                | 140                          |              | 224         | _                  |                     |
| . Waste Profile #                                                                                                                                                     | k. Exp. Date                          |                      | i. Owner's Phone No ·        | 0            | 2-2-7       | <b>,</b>           |                     |
|                                                                                                                                                                       | n. CAp. Data                          | Description          | ping Name and                |              | ntainers    | n. Total           | o. Unit             |
|                                                                                                                                                                       |                                       |                      |                              | No.          | Тура        | Quantity           | WI/Vol ,            |
| 421744-32706                                                                                                                                                          | malantaria                            | Lak to               |                              |              |             | 200                | 2/2                 |
| 121 17 12 106                                                                                                                                                         | 10/10/1/2012                          | I MIL W              | uter Posidue                 | 101          | VT          | 800                | 130                 |
|                                                                                                                                                                       |                                       |                      |                              | +            | VI          |                    |                     |
| 5000                                                                                                                                                                  |                                       |                      |                              |              |             |                    |                     |
|                                                                                                                                                                       |                                       |                      |                              |              |             | İ                  |                     |
|                                                                                                                                                                       |                                       |                      |                              | -            |             | =-                 |                     |
|                                                                                                                                                                       |                                       |                      |                              | 1            |             | - 1                |                     |
| ENERATOR'S CERTIFICATION                                                                                                                                              |                                       |                      |                              |              |             | - 1                |                     |
| JENERATOR'S CERTIFICATION: I her<br>tate law, has been properly described, or<br>raste is a treatment residue of a previou<br>een treated in accordance with the requ | eby certily that the above            | e named maleri       | al is not a hazardous wasis  | HE deliner   | hu 40 CE    | 1                  |                     |
| male is a treatment residue of a previou<br>een treated in accordance with the requ                                                                                   | sly restricted hazardous              | waste subject to     | condition for transportation | u accomius   | to applica  | pie tecnialione. V | icabia<br>ND # Ibla |
| 1.1.                                                                                                                                                                  | 200 10 01 11 200                      | מושטו סח בו עניט     | f John Zardesie seede        | tions. I cen | ily and wa  | mani that the was  | le has              |
| - Yar Cordero Roa                                                                                                                                                     | r/sucre Fa                            | son Corl             | co Stodi gue                 | INTEG BY 40  | CPR 281.    |                    |                     |
| . Genéfator Authorized Agent Name (P                                                                                                                                  |                                       |                      |                              | 7            |             | 13/2011            | /                   |
| TRANSPORTER (Gene<br>Transporter's Name and Address:                                                                                                                  | erator completes la                   | -b and Trans         | Dorler complete it           |              | r. Dalo     |                    |                     |
| Transporter's Marke and Address:                                                                                                                                      | · · · · · · · · · · · · · · · · · · · |                      | Worter Completes IIC-        | ₽)           |             |                    |                     |
| Phone: (76) \$36-129.                                                                                                                                                 | S1-57-6645-                           | NP.                  |                              |              | 221         |                    | 256                 |
| Jorchen HY                                                                                                                                                            | 2343                                  |                      | 1                            |              |             | *                  |                     |
| Oriver Nama (Print)                                                                                                                                                   |                                       | ٦.                   |                              |              | 4-          | 13-11              |                     |
| · DESTINATION (General                                                                                                                                                | d. Signature                          | 1.5                  |                              | e. Date      |             | - 01               |                     |
| DESTINATION (General Disposal Facility and Site Address:                                                                                                              | rol combiete lii9-C 9                 | nd Destinati         | on Sile completes illd       | -g)          | Ma          | 7)-611             |                     |
| PONCE LANDFILL                                                                                                                                                        | ¢, (                                  | US BPA Numbe         | d Discrepancy Indicate       | on Space:    | - 1/17      | 10                 |                     |
| AVE. BARAMAYA #500<br>PONCE, P. R. 00732                                                                                                                              |                                       | 1                    |                              | -            | •           |                    |                     |
| \ . /                                                                                                                                                                 |                                       | 1 11                 |                              |              |             |                    | - 1                 |
| eroby certify that the above named hate                                                                                                                               | rialhas been accepted a               | and to the host      | III /                        |              |             | 25                 | 1                   |
|                                                                                                                                                                       | Wh. h                                 | 1 11                 | The property of the lose of  | oing is true | and accur   | )(b).              |                     |
| Name of Authorized Agent (Print)                                                                                                                                      | f. Signature                          |                      |                              |              | 4113        |                    |                     |
| ASBESTOS (Generator of Operator's Name and Address:                                                                                                                   | Completes IVa fand                    | 2                    |                              | . Dale       |             | -                  |                     |
| Operator's Name and Address:                                                                                                                                          | UITS 1-B 41 ESTERATOR                 | Operator co          | mplele IVg-i)                | _            |             |                    |                     |
| , n                                                                                                                                                                   |                                       | <b>c</b> .           | Rasponsible Agency Name      | and Addre    | 55:         |                    |                     |
|                                                                                                                                                                       |                                       | - 1                  |                              |              |             |                    |                     |
| hone:                                                                                                                                                                 |                                       | ·                    |                              |              |             | 1/                 | - 1                 |
| Special Handling Instructions and Addition                                                                                                                            | nal Information;                      | d. i                 | Phone.                       |              |             |                    |                     |
|                                                                                                                                                                       |                                       |                      |                              |              |             |                    |                     |
| Friable Non-Friable Both                                                                                                                                              | % Friable                             | 0, 4                 |                              |              |             |                    |                     |
| I are classified packed Tion: I hereby d                                                                                                                              |                                       | of this consinue     | eldshift-nov                 |              |             |                    |                     |
| ERATOR'S CERTIFICATION: I hereby d<br>I are classified, packed, marked and labe<br>onal governmental regulations.                                                     | led and are in all respec             | is in proper con     | dition for transport by high | described    | above by    | n gniqqide regon   | ame                 |
|                                                                                                                                                                       |                                       |                      |                              | ···y accordi | ud nabbij   | cable internations | l and               |
| Decainds No.                                                                                                                                                          |                                       |                      |                              |              |             |                    |                     |
| iperator's Name and Title (Print)                                                                                                                                     | h. Signature                          |                      | 1.1                          | Sale         |             |                    |                     |
| erator rolers to the company which owns a vation operation or both                                                                                                    | , wases, operates, contr              | als, or supervise    | s the facility being demolis | hed or com   | voled as    | ha dans tee        |                     |
|                                                                                                                                                                       |                                       |                      | 1 2 2 3 7 9 1                | ur rulk      | recod, Of S | 110 OBMOULTON OF   | 1                   |





Pace Analytical Services, Inc. 1000 Riverbend Blvd, Suite F St. Rose, LA 70087 (504) 469-0333

November 09, 2012

Luis Perez CCL LABELS Carr 102 KM 33.2 San German, PR 00683

RE: Project 20146305 Project ID: SLUDGE IN

#### Dear Luis Perez:

Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Juan Redondo

juan.redondo@pacelabs.com



#### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



#### **Laboratory Certifications**

Pace Analytical Services, Inc. 1000 Riverbend Blvd, Suite F St. Rose, LA 70087 (504) 469-0333

Project: 20146305

Client: CCL LABELS
Project ID: SLUDGE IN

Washington Department of Ecology C2078

Oregon Environmental Laboratory Accreditation - LA200001

U.S. Dept. of Agriculture Foreign Soil Impurt P330-10-00119

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-09-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Oklahoma Department of Environmental Quality - 2010-139

Illinois Environmental Protection Agency - 0025721

California Env. Lab Accreditation Program Branch - 11277CA

Louisiana Dept. of Environmental Quality (NELAC) LELAP) 02006





#### Sample Cross Reference

Pace Analytical Services, Inc. 1000 Riverbend Blvd Suite F St. Rose, LA 70087 (504) 469-0333

Project: 20146305

Client: CCL LABELS
Project ID: SLUDGE IN

| Client Sample ID | Lab ID    | Matrix | Collection Date/Time | Received Date/Time |
|------------------|-----------|--------|----------------------|--------------------|
| SLUDGE IN        | 201039388 | Oil    | 31-Oct-12 13:30      | 31-Oci-12 18:00    |



#### **Project Narrative**

Pace Analytical Services, Inc. 1000 Riverbend Blvd. Suite F St. Rose, LA 70087 (504) 469-0333

| Den | inate | 201   | 46305  |
|-----|-------|-------|--------|
| PTO | ICCE: | - 400 | しものろびる |

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

**Holding Times:** 

All holding times were met.

Laboratory Control Samples:

LCS recoveries outside of QC limits are qualified in the Report of Quality Control section

Matrix Spikes and Doplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section



#### **QC Cross Reference**

Pace Analytical Services, Inc. 1000 Riverbend Blvd. Suite F St. Rose, LA 70087 (504) 469-0333

|                   | Project: 20146305 |                                  |  |  |  |  |  |  |
|-------------------|-------------------|----------------------------------|--|--|--|--|--|--|
|                   |                   |                                  |  |  |  |  |  |  |
|                   |                   |                                  |  |  |  |  |  |  |
| Analytical Method | Botch             | Sample used for QC               |  |  |  |  |  |  |
| EPA 8260          | 196544            | Batch sample from another client |  |  |  |  |  |  |



#### Definitions/Qualifiers

Pace Analytical Services, Inc. 1000 Riverbend Blvd. Suite F St. Rose, LA 70087 (504) 469-0333

Project: 20146305

| Value | Description                                                                                                                                                                         |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D2    | The analysis was performed at a dilution due to the presence of matrix interferences.                                                                                               |
| QIa   | The spike recovery was obove the laboratory QC limits, however, the data are reported without qualification since the target analyte was not detected in the corresponding samples. |
| J     | This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.                                                                |
| U     | The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.                                                                           |
| B     | This analyte was detected in the method blank.                                                                                                                                      |
| E     | The sample concentration is above the linear culibrated range of the analysis.                                                                                                      |
| LCS   | Laboratory Control Sample.                                                                                                                                                          |
| MS(D) | Matrix Spike (Duplicate)                                                                                                                                                            |
| DUP   | Sample Duplicate                                                                                                                                                                    |
| RPD   | Relative Percent Difference.                                                                                                                                                        |



#### Sample Results

Pace Analytical Services, Inc. 1000 Riverbend Blvd. Suite F St. Rose, LA 70087 (504) 469-0333

Client: CCL LABELS

Project: 20146305

Site: None

Matrix: Oil

% Moisture: n/a

Prep Level: Soil

Batch: 196544

Method: EPA 8260

Description: None

Client ID: SLUDGE IN

Project ID: SLUDGE IN

Lab ID: 201039388

GCMS VOAs Full List Med Soil

Collected: 31-Oct-12

Received: 31-Oct-12

Prepared: 08-Nov-12

Units: ug/kg

|            |                             |          |        |            |              | Units. upreg           |        |
|------------|-----------------------------|----------|--------|------------|--------------|------------------------|--------|
| CAS No.    | Analyte                     | Dilution | Result | Qu         | Repor<br>Lim |                        | s      |
| 67-64-1    | Accione                     | 5        | ND     | D2         | 2500         | 08-Nov-12 20:          | 7 2142 |
| 71-43-2    | Benzene                     | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 75-27-4    | Bromodichlommethane         | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 75-25-2    | Bromoform                   | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 74-83-9    | Bromomethane                | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 78-93-3    | 2-Butanone (MEK)            | 5        | ND     | D2         | :2500        | 08-Nov-12 20:          |        |
| 75-15-0    | Carbon disulfide            | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 56-23-5    | Carbon tetrachloride        | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 108-90-7   | Chlorobenzene               | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 75-00-3    | Chloroethane                | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 67-66-3    | Chloroform                  | .5       | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 74-87-3    | Chloromethane               | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 5        | ND     | D2         | 6250         | 08-Nov-12 20::         |        |
| 124-48-1   | Dibromochloromethane        | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 106-93-4   | 1,2-Dibromoethane (EDB)     | 5        | ND     | D2         | 6250         | 08-Nov-[2 20:          |        |
| 75-71-8    | Dichlorodifluoromethane     | 5        | ND     | D2         | 6250         | 08-Nov-12 20:1         |        |
| 75-34-3    | 1.1-Dichloroethane          | 5        | מא     | D2         | 6250         | 08-Nov-12 20:1         |        |
| 107-06-2   | 1,2-Dichloroethane          | 5        | ND     | D2         | 6250         | 08-Nov-12 20:          |        |
| 75-35-4    | 1,1-Dichloroethene          | 5        | ND     | D2         | 6250         | 08-Nov-12 20:1         |        |
| 156-59-2   | cis-1,2-Dichloroethene      | 5        | ND     | D2         | 6250         | 08-Nov-12 20;1         |        |
| 156-60-5   | trans-1,2-Dichloroethene    | 5        | ND     | D2         | 6250         | 09 Nov. 12 20-1        |        |
| 78-87-5    | 1,2-Dichloropropane         | 5        | NĐ     | D2         | 6250         | OCIADO (08-Nov-12 20:1 |        |
| 10061-01-5 | cis-1,3-Dichloropropene     | 5        | ND     | D2         | 6250         | 18 Nov. 17 701         |        |
| 10061-02-6 | trans-1,3-Dichloropropene   | 5        | ND     | D2         | 6250         | OANav-12 20:1          | *      |
| 64-17-5    | Ethanol                     | 5        | ND     | D2         | 15000        | Dava-12 20:1           |        |
| 100-41-4   | Ethylbenzene                | 5        | ND     | D2         | 6250         |                        |        |
| 591-78-6   | 2-Hexanone                  | 5        | ND     | D2         | 12500        | Negron 12 20 1         |        |
| 98-82-8    | Isopropylhenzene (Cumene)   | 5        | 20500  | D2         | 6250         | Neg 118 (8:30v-12 20 1 |        |
| 79-20-9    | Methyl acetate              | 5        | ND     | <b>D</b> 2 | 12500        | #3 #3 12 20 1          |        |
| 75-09-2    | Methylene chloride          | 5        | ND     | D2         | 6250         | * 1/1 29 -Nov-12 20 1  |        |
| 108-10-1   | 4-Methyl-2-pentanone (MIBK) | 5        | ND     | D2         | 12500        | 08-Nov-12 20 1         |        |
| 1634-04-4  | Methyl-tert-butyl other     | 5        | ND     | D2         | 6250         | 08-Nov-12 20 1         |        |
| 100-12-5   | Styrene                     | 5        | ND     | D2         | 6250         | 08-Nov-12 20 I         |        |
| 79-34-5    | 1.1.2.2-Tetrachloroethane   | 5        | ND     | D2         | 6250         | 08-Nov-12 20 1         | -      |

ND denotes the analyze was analyzed for but not descreed at the reporting limit or method detection limit indicated.

Protocol 11/9/2012 12:02:02 Limits are corrected for sample size, dilation and renisture content if applicable. Qu'Ests qualifiers - Specific qualifiers are defined at the end of the report. Regulatory limit may desente an actual regulatory limit or a client requested notification limit



Client ID: SLUDGE IN

Project ID: SLUDGE IN

Lab ID: 201039388

#### Sample Results

Pace Analytical Services, Inc. 1000 Riverband Blvd. Suite F St. Rose, LA 70087 (504) 469-0333

Client: CCL LABELS

Project: 20146305

Site: None

Matrix: Oil

% Moisture: n/a

Prep Level: Soil

Batch: 196544

Description: None Method: EPA 8260

GCMS VOAs Full List Med Soil

Collected: 31-Oct-12

Received: 31-Oct-12

Prepared: 08-Nov-12

Units: ug/kg

|          |                        |          |        |    | Reporting |           |                 |     |
|----------|------------------------|----------|--------|----|-----------|-----------|-----------------|-----|
| CAS No.  | Analyte                | Dilution | Result | Qu | Limit     | Reg Limit | Analysis        |     |
| 127-18-4 | Tetrachlorocthene      | 5        | ND     | D2 | 6250      |           | 08-Nov-12 20:17 | RMP |
| 108-88-3 | Tolurno                | 5        | 7890   | D2 | 6250      |           | 08-Nov-12 20:17 | RMP |
| 71-55-6  | 1.1.1-Trichloroethane  | 5        | ND     | D2 | 6250      |           | 08-Nov-12 20 17 | RMP |
| 79-00-5  | 1.1.2-Trichloroethane  | 5        | ND     | D2 | 6250      |           | 08-Nov-12 20 17 | RMP |
| 79-01-6  | Trichloroethono        | \$       | ND     | D2 | 6250      |           | 08-Nov-12 20 17 | RMP |
| 75-69-4  | Trichlorofluoromethane | 5        | ND     | D2 | 6250      |           | 08-Nov-12 20:17 | RMP |
| 75-01-4  | Vinyl chloride         | 5        | ND     | D2 | 6250      |           | 08-Nov-12 20 17 | RMP |
|          | m&p-Xylene             | 5        | 12900  | D2 | 6250      |           | 08-Nov-12 20:17 | RMP |
| 95-47-6  | o-Xylene               | 5        | 76400  | D2 | 6250      |           | 08-Nov-12 20 17 | RMP |





#### **Surrogate Recovery**

Pace Analytical Services, Inc. 1000 Riverbend Blvd. Suite F St. Rose, LA 70087 (504) 469-0333

| Batch: 196544 |                       |               |               |               |               |               |               |               |               |       |
|---------------|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|
| Me            | thod: Soil GC/MS Vola | tile Organics |               |               |               |               |               |               |               |       |
| Lab ID        | Sample (D             | Qu            | Sør 1<br>%Rec | Sur 2<br>%Rec | Sur 3<br>%Rec | Sur 4<br>%Rec | Sur 5<br>%Rec | Sur 6<br>%Rec | Sur 7<br>%Rec | Sur 8 |
| 201039621     | 196544 LCS 1          |               | 109           | 114           | 102           |               |               |               |               |       |
| 201039622     | F2-2 MS 1             |               | 87            | 93            | 83            |               |               |               |               |       |
| 201039623     | F2-2 MSD 1            |               | 84            | 85            | 81            |               |               |               |               |       |
| 201039388     | SLUDGE IN             |               | 27 D          | 116           | 79            |               |               |               |               |       |
|               | QC limits:            |               | 68-124        | 72-126        | 79-119        |               |               |               |               |       |

Sur I 4-Bromofluorobenzene (S)

Sur 2 Dibromofluoromethane (S)

Sur 3: Toluene-d8 (S)



# Pace Analytical"

#### **Quality Control**

Pace Analytical Services, Inc. 1000 Riverbend Blvd. Suite F St. Rose, LA 70087 (504) 469-0333

QC Protocol 11/9/2012 12:02:03

Batch: 196544

Project: 20146305

LCS: 201039621 08-Nov-12 14:40

Method: Soil GC/MS Volatile Organics

MS: 201039622 08-Nov-12 16:19

Units: ug/kg

MSD: 201039623 08-Nov-12 16:39

201038890 Original for MS: Batch Sample

| Parameter Name             | LCS<br>Solke |      | LCS<br>%Rec | MS<br>Spike | Sample<br>Found | MS<br>Found  | MSD<br>Found | MS<br>%Rec | MSD<br>%Rec | RPD         | QC<br>LCS | Limits<br>MS/MSD | Max<br>RPD | Qu  |
|----------------------------|--------------|------|-------------|-------------|-----------------|--------------|--------------|------------|-------------|-------------|-----------|------------------|------------|-----|
|                            |              |      |             | 0           | ,               | 9750         | 4530         | 292 *      | 136         | 73 •        | 10-195    | 10-204           | 70         | 010 |
| Accione                    | 2500         | 5630 | 225 *       | 3340        | 7340            | 10500        | 10300        | 96         | 88          | 3           | 66-133    |                  | 20         | 4.5 |
| Benzene                    | 2500         | 2520 | 101         | 3340        | 7340            |              | 2650         | 8B         | 80          | 10          | 67-132    |                  | 20         |     |
| Bromodichloromethane       | 2500         | 2570 | 103         | 3340        |                 | 2930<br>3500 | 2030<br>2950 | 105        | 88          | 17          | 53-153    |                  | 20         |     |
| Bromoform                  | 2500         | 3080 | 123         | 3340        |                 | 2420         | 2420         | 73         | 73          | 0           | 47-150    | -                | 20         |     |
| Bromomethene               | 2500         | 2280 | 91          | 3340        |                 |              |              | 157        | 82          | 62 *        | 16-167    |                  | 20         |     |
| 2-Butenone (MEK)           | 2500         | 3540 | 142         | 3340        |                 | 5230         | 2740         | 101        | 101         | 0.          | 18-173    |                  | 20         |     |
| Carbon disulfide           | 2500         | 3370 | 135         | 3340        |                 | 3360         | 3350         |            | 79          | 3           | 55-143    |                  | 20         |     |
| Carbon tetrachloride       | 2500         | 2450 | 98          | 3340        |                 | 2740         | 2640         | 82         |             | 0           | 71-131    |                  | 20         |     |
| Chlorobenzene              | 2500         | 2690 | 108         | 3340        |                 | 2870         | 2870         | 86         | 86          | _           |           |                  | 20         |     |
| Chloroethane               | 2500         | 1750 | 70          | 3340        |                 | 1720         | 2470         | 52         | 74          | 36 *        | -         |                  | 20         |     |
| Chloroform                 | 2500         | 2810 | 112         | 3340        |                 | 2950         | 2840         | 88         | 85          | 4           | 69-134    |                  | _          |     |
| Chloromethane              | 2500         | 2480 | 99          | 3340        |                 | 2400         | 2550         | 72         | 76          | 6           | 29-157    |                  | 20         |     |
| Dibromochloromethane       | 2500         | 2800 | 112         | 3340        |                 | 2950         | 2750         | 88         | 82          | 7           | 61-138    |                  | 20         |     |
| 1,1-Dichloroethane         | 2500         | 2850 | 114         | 3340        |                 | 3030         | 2960         | 91         | 89          | 3           | 62-137    |                  | 20         |     |
| 1,2-Dichloroethane         | 2500         | 2870 | 115         | 3340        |                 | 3250         | 2770         | 97         | 83          | 16          | 59-145    |                  | 20         |     |
| 1,1-Dichlaraethene         | 2500         | 3080 | 123         | 3340        |                 | 3160         | 3120         | 95         | 94          | - 1         | 46-156    |                  | 20         |     |
| cis-1,2-Dichloroethene     | 2500         | 2680 | 107         | 3340        |                 | 2880         | 2760         | 86         | 83          | 4           | 64-131    |                  | 20         |     |
| trans-1.2-Dichloroethene   | 2500         | 2910 | 116         | 3340        |                 | 3040         | 3090         | 91         | 93          | 2           | 55-138    |                  | 20         |     |
| 1,2-Dichloropropane        | 2500         | 2850 | 114         | 3340        |                 | 3000         | 2880         | 90         | 86          | 4           | 65-130    |                  | 20         |     |
| cis-1,3-Dichloropropene    | 2500         | 2470 | 99          | 3340        |                 | 2620         | 2490         | 79         | 75          | 5           | 63-137    |                  | 20         |     |
| trans-1,3-Dichloropropene  | 2500         | 2550 | 102         | 3340        |                 | 2760         | 2470         | 83         | 74          | 11          | 61-143    |                  | 20         |     |
| Ethylbenzene               | 2500         | 2520 | 101         | 3340        |                 | 2650         | 2770         | 79         | 83          | 5           | 71-130    |                  | 20         |     |
| 2-Hexanone                 | 2500         | 2710 | 108         | 3340        |                 | 3990         | 2240         | 120        | 67          | 56 *        | 25-150    |                  | 20         |     |
| Methylene chloride         | 2500         | 3310 | 132         | 3340        |                 | 3470         | 1070         | 104        | 32 °        | 106 •       | 39-17:    | 33-167           | 20         |     |
| 4-Methyl-2-pentanone (MIBK | 2500         | 2590 | 104         | 3340        |                 | 3080         | 2380         | 92         | 71          | 26 °        | 43-15     | 39-167           | 20         |     |
| Styrene                    | 2500         | 2640 | 106         | 3340        |                 | 2810         | 2810         | 84         | 84          | 0           | 72-13-    | 62-141           | 20         |     |
| 1,1,2,2-Tetrachloroethane  | 2500         | 3140 | 126         | 3340        |                 | 3470         | 2910         | 104        | 87          | 18          | 40-15     | 35-164           | 20         |     |
| Terrachlomethene           | 2500         | 2410 | 96          | 3340        |                 | 2610         | 2610         | 78         | 78          | 0           | 55-150    | 44-162           | 20         |     |
| Toluese                    | 2500         | 2550 | 102         | 3340        |                 | 2790         | 2740         | 84         | 83          | 2           | 68-13     | 60-137           | 20         |     |
| 1,1,1-Trichloroethane      | 2500         | 2550 | 102         | 3340        |                 | 2650         | 2700         | 79         | 8.1         | 2           | 63-13     | 58-139           | 20         |     |
| 1.1.2-Trichloroethane      | 2500         | 2930 | 117         | 3340        |                 | 3320         | 2730         | 99         | 82          | 200         | A443      | 61-140           | 20         |     |
| Trichloroethene            | 2500         | 2260 | 90          | 3340        |                 | 2490         | 2480         | 75         | 1985        | OCIA        | P.O. I    | 58-145           | 20         |     |
| Vinyl chloride             | 2500         | 2020 | 81          | 3340        |                 | 1920         | 2070         | 58         | 8,75        | 7. 5        | 10-15     | A 157            | 20         |     |
| m&p-Xylene                 | 5000         | 5190 | 104         | 6670        |                 | 5420         | 5680         |            | 85          | LAA         | 53013     | 1 100019         | 20         |     |
| n-Xylene                   | 2500         | 2610 | 104         | 3340        |                 | 2700         | 2800         | 785        | 84 ,        | 17          | 767-13    | 933              | 20         |     |
| 35 compound(s) reported    |              |      |             |             |                 |              |              | ESTAD      | QUIMIC      | Ness<br>#34 | A. TENO   |                  |            |     |

\* despire recovery outside of QC timits. MS/MSD RPD is calculated via SW-846 rules on the basis of apiked sample concentrations rather than apike recoveries.





# **Sample Preparation Forms**



#### Sample Preparation MSV

Pace Analytical Services, Inc. 1000 Riverbend Blvd. Suite F St. Rose, LA 70087 (504) 469-0333

Method: EPA 5030 Medium Soil

GCMS VOAs Med Soil LCS

Project: 20146305

Batch: 196544

|   | Туре | Lab ID    | Client 1D    | Matrix | Analyst | Date       | latial Sample<br>Size | Final Sample<br>Size | Molsture |  |  |  |
|---|------|-----------|--------------|--------|---------|------------|-----------------------|----------------------|----------|--|--|--|
| 1 | LCS  | 201039621 | 196544 LCS 1 |        | RMP     | 11/08/2012 |                       |                      |          |  |  |  |
| 2 | MS   | 201039622 | F2-2 MS 1    | Soil   | RMP     | 11/08/2012 |                       |                      | 25       |  |  |  |
| 3 |      | 201039623 | F2-2 MSD I   | Soil   | RMP     | 11/08/2012 |                       |                      | 25       |  |  |  |
| 4 |      | 201038890 |              | Soil   | RMP     | 11/08/2012 |                       |                      | 25       |  |  |  |
| 5 |      | 201038891 |              | Soil   | RMP     | 11/08/2012 |                       |                      | 24.2     |  |  |  |
| 6 | PS   | 201039388 | SLUDGE IN    | Oil    | RMP     | 11/08/2012 |                       |                      |          |  |  |  |





# **Organics Raw Data**

#### Quantitation Report

Vial: 38 Data File : R:\DATAL\110812\1108L38.D

Operator: Inst : 20msvl Multiplr: 1.00 Acq On : 8 Nov 2012 8:17 pm Sample : 201039388 Misc : 196544 1:5 MED/1.0g 20uL MS Integration Params: RTEINT.P

Quant Results File: L100912.RES Quant Time: Nov 9 9:11 2012

Quant Method : C:\DATAL\L100912.M (RTE Integrator)

Title : 8260 LIST L
Last Update : Thu Nov 08 09:49:35 2012
Response via : Initial Calibration
DataAcq Meth : LVOAGC
IS QA File : C:\DATAL\110812\1108L05.D (8 Nov 2012 9:19)

| Internal Standards                                                                                                                                                                                                                                                                                               | R.T.                                                        | QIon                                                | Response                  | Conc Ur                                                                          | nits             | Dev(Min)<br>Rcv(Ar )                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------|---------------------------|----------------------------------------------------------------------------------|------------------|------------------------------------------|
| 1) CIO5 Pentafluorobenzene                                                                                                                                                                                                                                                                                       | 7.19                                                        | 99                                                  | 118983                    | 50.00                                                                            | ppb              | -0.01<br>69.42%                          |
| 37) CI10 1,4-Difluorobenzene                                                                                                                                                                                                                                                                                     | 7.67                                                        | 114                                                 | 312514                    | 50.00                                                                            | ББр              | 0.00<br>70.45%                           |
| 57) CI15 Chlorobenzene-d5                                                                                                                                                                                                                                                                                        | 10.21                                                       | 82                                                  | 176007                    | 50.00                                                                            | ppb              | 0.00<br>89.82%                           |
| 70) C120 1,4-Dichlroobenzene                                                                                                                                                                                                                                                                                     | -d 11.60                                                    | 152                                                 | 345908                    | 50.00                                                                            | ppb              | 0.00<br>273.30%                          |
| System Monitoring Compounds 35) CS15 Dibrfluoromethane Spiked Amount 50.000 54) CS05 Toluene-d8 Spiked Amount 50.000 73) CS10 Bromofluorobenzene Spiked Amount 50.000                                                                                                                                            | Range 72<br>9.00<br>Range 79<br>10.98                       | - 126<br>98<br>- 119<br>176                         | Recove                    | 7.92<br>2.69                                                                     | ppb<br>15<br>ppb | 0.00<br>.B4%#<br>-0.01                   |
| Target Compounds 43) F013 Methylcyclohexane 53) B130 Toluene 67) C250 m-p-Xylene 68) C250 o-Xylene 71) B195 Isopropylbenzene 76) B215 n-Propylbenzene 78) B230 1,3,5-Trimebenzene 82) B235 1,2,4-Trimebenzene 83) B245 sec-Butylbenzene 84) B255 4-Isopropyltoluene 89) B250 n-Butylbenzene 93) B285 Naphthalene | 10.33<br>10.61<br>10.80<br>11.04<br>11.28<br>11.28<br>11.43 | 106<br>106<br>105<br>91<br>105<br>105<br>105<br>119 | 55835<br>295745<br>752736 | 10.29<br>61.13<br>16.37<br>148.63<br>282.10<br>299.46<br>36.41<br>69.56<br>19.28 |                  | # 68<br>77<br>77<br>85<br>81<br>57<br>97 |

<sup>(#) =</sup> qualifier out of range (m) = manual integration 1108L38.D L100912.M Fri Nov 09 12:02:18 2012

#### Quantitation Report

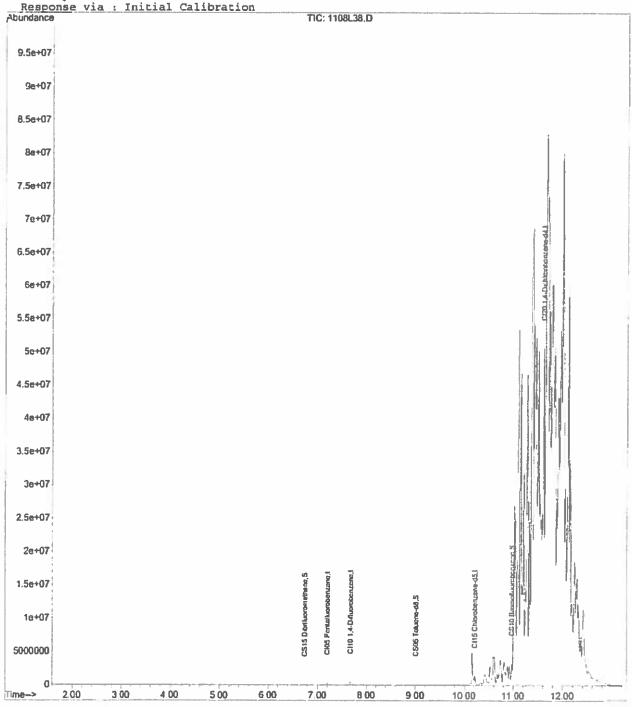
Data File : R:\DATAL\110812\1108L38.D Via1: 38 Acq On : 8 Nov 2012 8:17 pm Operator: : 201039388 : 20msvl Sample Inst : 196544 1:5 MED/1.0g 20uL Misc Multiplr: 1.00

MS Integration Params: RTEINT.P Quant Time: Nov 9 9:11 2012

Quant Results File: L100912.RES

Method : R:\DATAL\L100912.M (RTE Integrator)

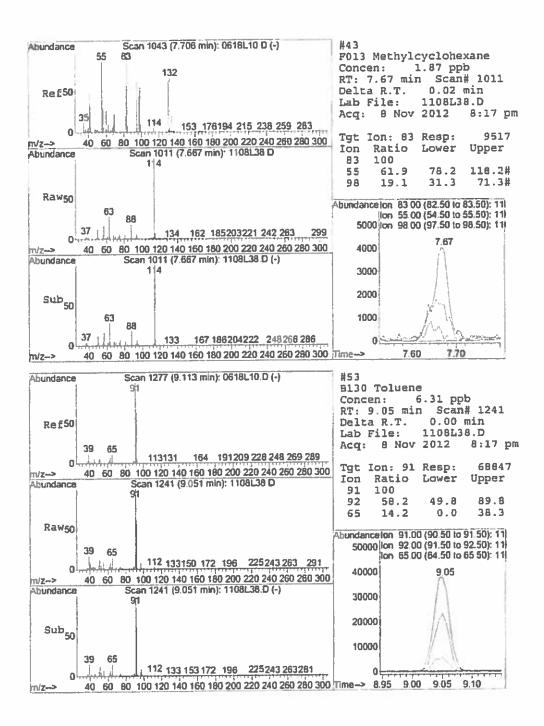
Title : 8260 LIST L Last Update : Tue Oct 09 13:52:34 2012

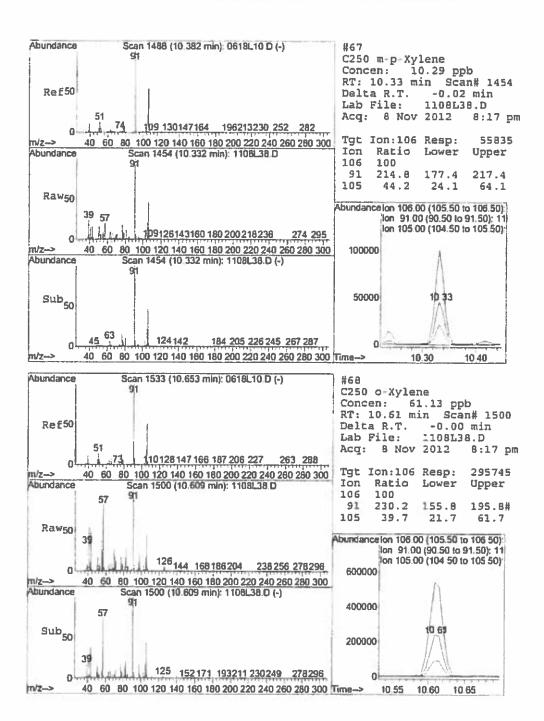


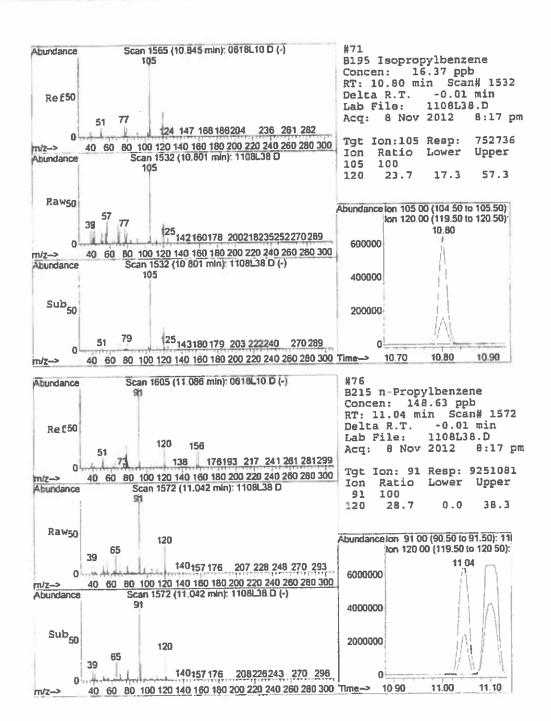
1108L38.D L100912.M

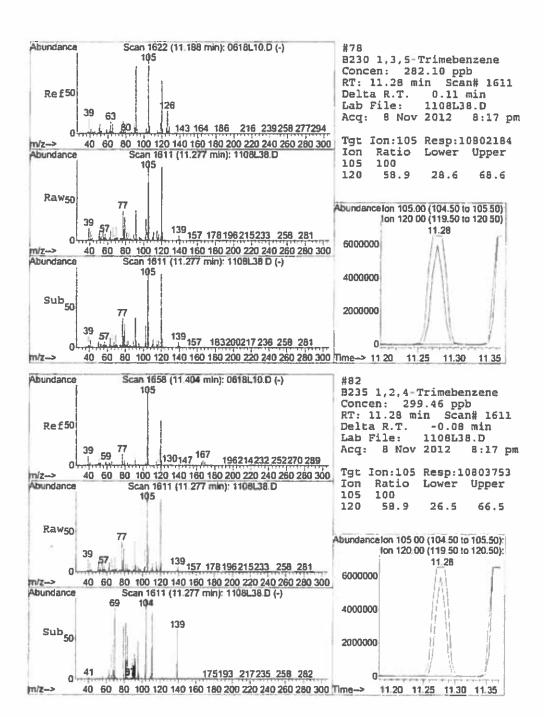
Fri Nov 09 12:02:18 2012

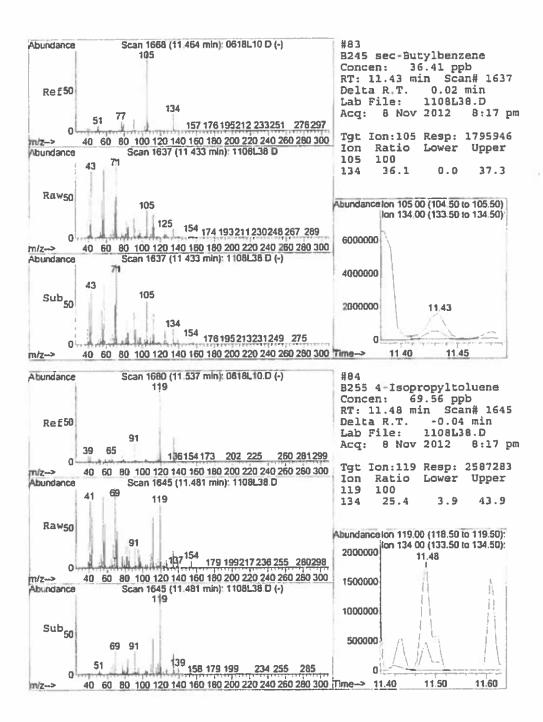
Page 2

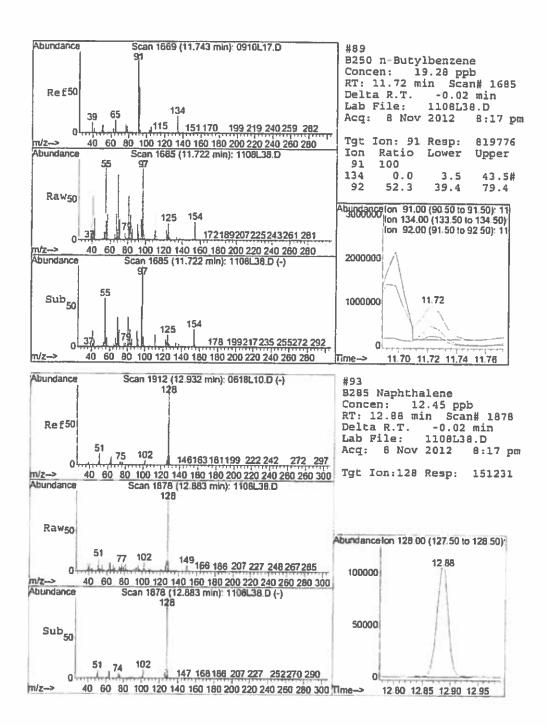














**Chains of Custody** 

Pack Project No. 1, 20 s (t. .5 SALES CONSTITUTES 177 製物はは 47.1 \*5 1:3 ... おおいない ひっという 2 11 REGULATORY ABERCY AL RA 3 Maquealor Analysis fellered (1914) 341 SH. LACALIST STATE 133392 lu fo 98-CCL LABE 2 PATE LINES Mary Burk man al Char Nu Lited claylene l Ports of Thomas y 6.51. 11011 20146305 100 107 H 823 11.75 Contraction and a FARRIEG MANE AND CONTAINE 2) K) (1) FADAT NOTE OF BALLEUR Spiller of the first state of the נואני Water Brown : i י מרני, ובּני Ü. RELANDAGERON - ARTHREST DA 1 .: 16. 13. 12m. Griff Jose Winter ... LONG CORNE 17 Matter Cozze SEEDER SELL COUNTRIES Sue And Gun 人 No constant SAMPLEID faqueting contrast Section 5 Section A e 27314 - i n 이 이 이 의 1이 이 # 의기

page 23 of 24

#### Sample Condition Upon Receipt Pace Analytical Um Inilimi in Calyrabi Cale Migen. Calk 16 Selyrata, PP 00065 Project #: 20 4305 Ø Fed X □ UPS CI DHL O USPS □ Customer 3 Other ☐ Hackbarth □ Pace Cour:er Custody Seals Intact: OYes Dito Custody Soul on Coolor/Box Present. [see CCC] c Therm Fisher IR 1 Therometer (Wet) Blue None Samples on ico: [see COC] o Themi Fisher IR 2 Type of Ica: Uzed: Therm Fisher IR 3 Date and initials of person examining Cooler Temperature [see COC] Temp should be above (reazing to 6°C Temp must be measured from Temperature blank when present Comments. CIYES CITES CINCA Temperature Blank Present? alver Des Deck 2 Chain of Custody Present MYON CHO CHA 3 Chain of Custody Complete. ENVOS COMO COMO 4 Chain of Custody Relinquished aves Die Die 5 Sampler Name & Signature on COC. ESTER END ENA 6 Samples Arrived within Hold Time: LIVAS LINE LINEA Sufficient Volume. Edites Orle CitiA Correct Containers Used: DYes DAN DINA ritered vot Rec. for Diss. tosts IN DIE OHA Sample Lobels match COC: All containers received within manafacture's Dres Die Olla prochulianery and/or expiration dates. All containers needing preservation heve been ENVES THE THEA checked (except VOA, coliform & O&G). All containers preservation checked found to be in If No, was presentive edited? aYes aNo GIVES CING CINA If added record lot no.: HNO3 complance with EPA recommendation Elves Ditto Elva 14 Samples checked for dechlorination: CITIES EINE CINEA 14 Hendspace in VOA Vials ( >6mm) Top Blank Present: ∰Yes ØNe DIVA 16 DYES DIE MINA 17 Top Blank Gustody Seals Present 18 Pace Trip Black Lot # (if purchased): NA Client Notification/ Resolution: Person Conlacted Dale/Tinte. Comments/ Resolution

ALLC003rev.05, 12Jun2009pr - med



# Premises Pollution Liability III Insurance Policy

## **Declarations**

This Policy is issued by the stock insurance company listed above (herein called the Insurer).

THIS POLICY PROVIDES LIABILITY COVERAGE ON A CLAIMS-MADE AND REPORTED BASIS, WHICH COVERS ONLY CLAIMS FIRST MADE AGAINST THE INSURED AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD. THIS POLICY PROVIDES COVERAGE FOR REMEDIATION COSTS ON A DISCOVERED AND REPORTED BASIS, WHICH COVERS ONLY POLLUTION CONDITIONS FIRST DISCOVERED AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD. PLEASE READ THIS POLICY CAREFULLY. SOME OF THE PROVISIONS CONTAINED IN THIS POLICY RESTRICT COVERAGE, SPECIFY WHAT IS AND IS NOT COVERED AND DESIGNATE YOUR RIGHTS AND DUTIES. LEGAL DEFENSE EXPENSES ARE SUBJECT TO AND SHALL ERODE THE LIMITS OF LIABILITY AND ANY APPLICABLE SELF-INSURED RETENTION.

THE DECLARATIONS, TOGETHER WITH THE COMPLETED AND SIGNED APPLICATION, THIS POLICY, AND ANY ENDORSEMENTS OR SCHEDULES ATTACHED HERETO, CONSTITUTE THE INSURANCE POLICY.

| <b>Policy No.</b> : PPL G24876871 004 |                              | Renewal of: PPL G24876871 003 |                       |
|---------------------------------------|------------------------------|-------------------------------|-----------------------|
| Item 1.                               | First Named Insured: CCL Inc |                               | stries Corporation    |
|                                       | Address:                     | 15 Contro<br>Shelton,         | ols Drive<br>CT 06484 |

| Item 2.                                                                          | COVERAGE A – New Pollution Conditions Coverage                                                        |   |  |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---|--|
| a. Policy Period local time of the address shown in Item. 1                      | Policy Inception Date:  March 31, 2015 12:01 A.M.  Policy Expiration Date:  March 31, 2018 12:01 A.M. |   |  |
| b. Limits of Liability                                                           |                                                                                                       | • |  |
| per "pollution condition"                                                        | \$ 1,000,000                                                                                          |   |  |
| c. Limits of Liability                                                           |                                                                                                       |   |  |
| aggregate all "pollution conditions"                                             | \$ 1,000,000                                                                                          |   |  |
| d. Self-Insured Retention                                                        |                                                                                                       |   |  |
| per<br>"pollution condition"                                                     | \$ 50,000                                                                                             |   |  |
| Coverage A not provided under this Policy (all fields in Item 2. are left blank) |                                                                                                       |   |  |

| Item 3.                                                     | COVERAGE B - Pre-Existing Pollution Conditions Coverage                                               |   |  |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---|--|
| a. Policy Period local time of the address shown in Item. 1 | Policy Inception Date:  March 31, 2015 12:01 A.M.  Policy Expiration Date:  March 31, 2018 12:01 A.M. |   |  |
| b. Limits of Liability                                      |                                                                                                       | · |  |
| per "pollution condition"                                   | \$ 1,000,000                                                                                          |   |  |
| c. Limits of Liability                                      |                                                                                                       |   |  |
| aggregate all "pollution conditions"                        | \$ 1,000,000                                                                                          |   |  |
| d. Self-Insured Retention                                   |                                                                                                       |   |  |
| per "pollution condition"                                   | \$ 50,000                                                                                             |   |  |
|                                                             | Coverage B not provided under this Policy (all fields in Item 3. are left blank)                      |   |  |

| Item 4. Limits of Liability: Total Policy Aggregate | \$ 1,000,000 |
|-----------------------------------------------------|--------------|
|-----------------------------------------------------|--------------|

| Item 5. | Premium:                    |                                                                                                                                                                             |
|---------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Total Premium:              | (This premium amount shall be deemed 100 % minimum-earned as of the first day of the Policy Period indicated in Item. 2.a and/or Item. 3.a., above., whichever is earlier.) |
| Item 6. | Producer:<br>Name & Address | MARSH USA INC<br>9830 COLONNADE BLVD<br>SUITE 400<br>SAN ANTONIO, TX 78230                                                                                                  |

# \*All dollar amounts identified above are in *United States dollars*.

| Item 7. | a. Notice of Claim or Pollution Condition                                                                                                                                                                          | b. All other Notices                                                                                                                       |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Notices | Environmental Risk Claims Manager ACE USA Claims P.O. Box 5103 Scranton, PA 18505-0510 Fax: (866) 635-5687  First Notice Fax: (800) 951-4119 First Notice Email: CasualtyRiskEnvironmentalFirstNotice@acegroup.com | Environmental Risk Underwriting Officer<br>ACE Environmental Risk<br>P.O. Box 1000<br>436 Walnut Street – WA 07A<br>Philadelphia, PA 19106 |
|         | 24 Hour Emergency Response Hotline                                                                                                                                                                                 | 1-888-310-9553                                                                                                                             |

| Item 8. | Covered Locations: | <ol> <li>All US current and divested locations as per electronic spreadsheet file "EIL Schedule of Locations – Current &amp; Divested 11-28-14.xls" provided by the insured and on file with Underwriters 28214 Beck Road, Wixom, Michigan, 48393</li> <li>124-150 Horizon Drive, Verona, WI 53593</li> </ol> |
|---------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                    | if checked here, schedule of Covered Locations is designated via endorsement.                                                                                                                                                                                                                                 |

# **Endorsements and Notices Attached at Policy Issuance:**

| Endorsement Number: | Form<br>Number:   | Form Name:                                                                                         |  |
|---------------------|-------------------|----------------------------------------------------------------------------------------------------|--|
| 1                   | PF-32461 (11/10)  | Schedule of Named Insureds (Broad – Majority Owned Chain)<br>Endorsement                           |  |
| 2                   | PF-32352 (11/10)  | Schedule of Additional Insureds (Broad – with By Contract) Endorsement (PPL III)                   |  |
| 3                   | PF-30903 (09/10)  | Jurisdiction and Venue/Choice of Law Amendatory (Deletion) Endorsement (PPL III/GPPL/PPL Port)     |  |
| 4                   | PF-32359 (11/10)  | Asbestos Coverage (Bodily Injury & Property Damage Only) Endorsement (PPL III)                     |  |
| 5                   | PF-32367 (11/10)  | Automatic Acquisition and Due Diligence Endorsement (PPL III)                                      |  |
| 6                   | PF-32369 (11/10)  | Business Interruption and Delay Expense Endorsement (PPL III)                                      |  |
| 7                   | PF-32390 (11/10)  | Coverage Limitation and Reopener Endorsement (PPL III)                                             |  |
| 8                   | PF-32430 (11/10)  | Basic Extended Reporting Period (90 Days) Endorsement (PPL III)                                    |  |
| 9                   | PF-32431 (11/10)  | First-Party Property Value Diminution Coverage Endorsement (PPL III)                               |  |
| 10                  | PF-32433 (11/10)  | Fungi and Legionella Coverage (Sublimit) Endorsement (PPL III)                                     |  |
| 11                  | PF-32443a (02/13) | Lead-Based Paint Coverage (Bodily Injury & Property Damage Only)<br>Endorsement (PPL III)          |  |
| 12                  | PF-32464 (11/10)  | Non-Owned Disposal Sites Coverage (Blanket - New Waste and Historical Waste) Endorsement (PPL III) |  |
| 13                  | PF-32477 (11/10)  | Notice of Cancellation (120 Days) Endorsement (PPL III)                                            |  |
| 14                  | PF-32485 (11/10)  | Other Insurance (Primary) Endorsement (PPL III)                                                    |  |
| 15                  | PF-32494 (11/10)  | Prior Claims Exclusionary (Itemized) Endorsement (PPL III)                                         |  |
| 16                  | PF-32527 (11/10)  | Transportation Coverage Endorsement (PPL III)                                                      |  |
| 17                  | PF-32528 (11/10)  | Underground Storage Tank Coverage (Blanket) Endorsement (PPL III)                                  |  |
| 18                  | PF-32535 (11/10)  | Waiver of Subrogation Endorsement (PPL III)                                                        |  |
| 19                  | MANU (03/10)      | Known Conditions Exclusion Amendatory Endorsement                                                  |  |
| 20                  | MANU 1 (03/15)    | Self-Insured Retention to Deductible Amendatory Endorsement                                        |  |
| 21                  | MANU 2 (03/15)    | Property Damage Amendatory (Stigma) Endorsement                                                    |  |
| 22                  | MANU 3 (03/15)    | Responsible Person Amendatory Endorsement                                                          |  |
| 23                  | MANU 5 (03/15)    | Insured vs. Insured Amendatory Endorsement                                                         |  |
| 24                  | MANU 6 (03/15)    | Schedule of Covered Locations (Inadvertently Omitted Locations - New Conditions Only) Endorsement  |  |

| Endorsement Number: | Form<br>Number:   | Form Name:                                                                                             |  |
|---------------------|-------------------|--------------------------------------------------------------------------------------------------------|--|
| 25                  | MANU 7 (03/15)    | Pollution Condition Amendatory (EMF) Endorsement                                                       |  |
| 26                  | MANU 8 (03/15)    | Schedule of Additional Insureds (Vicarious Only) Endorsement                                           |  |
| 27                  | ALL-21101 (11/06) | Trade or Economic Sanctions Endorsement                                                                |  |
| 28                  | XS-3U96f (02/06)  | Service of Suit Endorsement                                                                            |  |
| 29                  | LD-5S23j (03/14)  | Signatures                                                                                             |  |
|                     | TRIA24 (01/15)    | Policyholder Disclosure Notice of Terrorism Insurance Coverage                                         |  |
|                     | SL-17902 (04/10)  | Pennsylvania Surplus Lines Notification                                                                |  |
|                     | ALL-20887 (10/06) | ACE Producer Compensation Practices & Policies                                                         |  |
|                     | IL P 001 01 04    | U. S. Treasury Department's Office of Foreign Assets Control ("OFAC") Advisory Notice to Policyholders |  |

IN WITNESS WHEREOF, the Insurer has caused this Policy to be countersigned by a duly authorized representative of the Insurer.

| DATE: | March 31, 2015 | JOHN J. LUPICA, President |
|-------|----------------|---------------------------|
|       | MO/DAY/YR      | AUTHORIZED REPRESENTATIVE |



# Premises Pollution Liability III Insurance Policy

This Policy is issued by the stock insurance company identified in the Declarations (hereinafter the Insurer).

THIS POLICY PROVIDES LIABILITY COVERAGE ON A CLAIMS-MADE AND REPORTED BASIS, WHICH COVERS ONLY CLAIMS FIRST MADE AGAINST THE INSURED AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD. THIS POLICY PROVIDES COVERAGE FOR REMEDIATION COSTS ON A DISCOVERED AND REPORTED BASIS, WHICH COVERS ONLY POLLUTION CONDITIONS FIRST DISCOVERED AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD. PLEASE READ THIS POLICY CAREFULLY. SOME OF THE PROVISIONS CONTAINED IN THIS POLICY RESTRICT COVERAGE, SPECIFY WHAT IS AND IS NOT COVERED AND DESIGNATE YOUR RIGHTS AND DUTIES. LEGAL DEFENSE EXPENSES ARE SUBJECT TO AND SHALL ERODE THE LIMITS OF LIABILITY AND ANY APPLICABLE SELF-INSURED RETENTION.

Throughout this Policy the words *the Insurer* shall refer to the company providing this insurance. Other words and phrases that appear in quotation marks have special meanings and are defined in Section **V., DEFINITIONS**.

In consideration of the payment of the premium and in reliance upon all statements made in the Application to this Policy, including the information furnished in connection therewith, and subject to all terms, definitions, conditions, exclusions and limitations of this Policy, the Insurer agrees to provide insurance coverage to the "insured" as described herein.

## I. INSURING AGREEMENTS

Solely to the extent that the Coverages, below, are identified on the Declarations to this Policy as being underwritten by the Insurer, the Insurer agrees to pay on behalf of the "insured" for:

#### A. NEW POLLUTION CONDITIONS (Coverage A.)

"Claims", "remediation costs", and associated "legal defense expenses", in excess of the "self-insured retention", arising out of a "pollution condition" on, at, under, or migrating from a "covered location", provided the "claim" is first made, or the "insured" first discovers such "pollution condition", during the "policy period". Any such discovery of a "pollution condition" must be reported to the Insurer, in writing, during the "policy period". Any such "claim" must be reported to the Insurer, in writing, during the "policy period" or any applicable "extended reporting period".

The coverage afforded pursuant to this Coverage **A.** only applies to "pollution conditions" that first commence, in their entirety, during the "policy period".

#### **B.** PRE-EXISTING POLLUTION CONDITIONS (Coverage **B**.)

"Claims", "remediation costs", and associated "legal defense expenses", in excess of the "self-insured retention", arising out of a "pollution condition" on, at, under, or migrating from a "covered location", provided the "claim" is first made, or the "insured" first discovers such "pollution condition", during the "policy period". Any such discovery of a "pollution condition" must be reported to the Insurer, in writing, during the "policy period". Any such "claim" must be reported to the Insurer, in writing, during the "policy period" or any applicable "extended reporting period".

The coverage afforded pursuant to this Coverage **B.** only applies to "pollution conditions" that first commenced, in whole or part, prior to the "policy period".

#### II. LIMITS OF LIABILITY AND SELF-INSURED RETENTION

- **A.** It is expressly agreed that the Insurer's obligation to pay for any covered "claims", "remediation costs" or "legal defense expense" pursuant to this Policy shall attach to the Insurer only after the "first named insured" has paid, or has provided evidence to the Insurer that another "named insured" has paid, the full amount of the "self-insured retention" with respect to any covered "pollution condition". Under no circumstances shall the Insurer be liable to pay any amount within the "self-insured retention". In the event that the "first named insured" cannot provide satisfactory evidence that a "named insured" has paid the full amount of the "self-insured retention" with respect to any covered "pollution condition", the "first named insured" shall remain responsible to pay the "self-insured retention" before the Insurer's payment obligation pursuant to this Policy shall attach with respect to coverage sought by any "insured".
- **B.** One "self-insured retention" shall apply to all "claims", "remediation costs" and "legal defense expenses" arising out of the same, continuous, repeated, or related "pollution condition".
- **C.** With respect to Coverage **A.**, and subject to Subsections **D.**, **G.** and **H.**, below, the most the Insurer shall pay for all "claims", "remediation costs" and "legal defense expense" arising out of the same, continuous, repeated, or related "pollution condition" is the Limit of Liability identified in Item **2.b.** of the Declarations to this Policy.
- **D.** With respect to Coverage **A.**, and subject to Subsection **C.**, above, and Subsections **G.** and **H.**, below, the Limit of Liability identified in Item **2.c.** of the Declarations to this Policy shall be the maximum liability of the Insurer pursuant to this Policy with respect to all "claims", "remediation costs" and "legal defense expense" for all "pollution conditions".
- **E.** With respect to Coverage **B.**, and subject to Subsections **F.**, **G.** and **H.**, below, the most the Insurer shall pay for all "claims", "remediation costs" and "legal defense expense" arising out of the same, continuous, repeated, or related "pollution condition" is the Limit of Liability identified in Item **3.b.** of the Declarations to this Policy.
- **F.** With respect to Coverage **B.**, and subject to Subsection **E.**, above, and Subsections **G.** and **H.**, below, the Limit of Liability identified in Item **3.c.** of the Declarations to this Policy shall be the maximum liability of the Insurer pursuant to this Policy with respect to all "claims", "remediation costs" and "legal defense expense" for all "pollution conditions".
- **G.** Subject to Subsections **C., D., E.** and **F.**, above, the Total Policy Aggregate Limit of Liability identified in Item **4.** of the Declarations to this Policy shall be the maximum liability of the Insurer pursuant to this Policy with respect to all "claims", "remediation costs" and "legal defense expense" for all "pollution conditions" covered pursuant to Coverages **A.** and **B.**, and any Supplemental Coverages added by endorsement to this Policy, if any.
- **H.** If the Insurer or an affiliate has issued pollution liability coverage afforded on a discovered and reported basis or claims-made and reported basis consistent with Coverages **A.** or **B.**, herein, in one or more policy periods, and a "pollution condition" is first discovered and reported to the Insurer, or a "claim" is first made and reported to the Insurer with respect to a "pollution condition", in accordance with the terms and conditions of this Policy, then:
  - 1. Any continuous, repeated, or related "pollution condition" that is subsequently reported to the Insurer during later policy periods shall be deemed to be one "pollution condition" discovered during this "policy period"; and
  - 2. All "claims" seeking "bodily injury", "property damage" or "remediation costs" arising out of:
    - **a.** That same, continuous, repeated, or related "pollution condition" that was discovered during this "policy period"; or
    - **b.** That same, continuous, repeated, or related "pollution condition" that was the subject of a "claim" first made and reported during this "policy period" or any applicable "extended reporting period",

shall be deemed to have been first made and reported during this "policy period" and no other policy shall respond.

#### **III. DEFENSE AND SETTLEMENT**

- **A.** The Insurer shall have the right and, subject to the "self-insured retention" obligation, the duty to defend the "insured" against a "claim" to which this insurance applies. The Insurer shall have no duty to defend the "insured" against any "claim" to which this insurance does not apply. The Insurer's duty to defend the "insured" ends once the Limits of Liability are exhausted or are tendered into a court of applicable jurisdiction, or once the "insured" refuses a settlement offer as provided in Subsection **E.**, below.
- **B.** The Insurer shall have the right to select legal counsel to represent the "insured" for the investigation, adjustment, and defense of any "claims" covered pursuant to this Policy. Selection of legal counsel by the Insurer shall not be done without the consent of the "insured"; such consent shall not be unreasonably withheld. "Legal defense expenses" incurred prior to the selection of legal counsel by the Insurer shall not be covered pursuant to this Policy, or credited against the "self-insured retention".
  - In the event the "insured" is entitled by law to select independent counsel to defend itself at the Insurer's expense, the attorney fees and all other litigation expenses the Insurer shall pay to that counsel are limited to the rates the Insurer actually pays to counsel that the Insurer normally retains in the ordinary course of business when defending "claims" or lawsuits of similar complexity in the jurisdiction where the "claim" arose or is being defended. In addition, the "insured" and the Insurer agree that the Insurer may exercise the right to require that such counsel: 1) have certain minimum qualifications with respect to their competency, including experience in defending "claims" similar to those being asserted against the "insured"; 2) maintain suitable errors and omissions insurance coverage; 3) be located within a reasonable proximity to the jurisdiction of the "claim"; and 4) agree in writing to respond in a timely manner to the Insurer's requests for information regarding the "claim". The "insured" may at anytime, by its signed consent, freely and fully waive its right to select independent counsel.
- **C.** The "insured" shall have the right and the duty to retain a qualified environmental consultant to perform any investigation and/or remediation of any "pollution condition" covered pursuant to this Policy. The "insured" must receive the written consent of the Insurer prior to the selection and retention of such consultant, except in the event of an "emergency response". Any costs incurred prior to such consent shall not be covered pursuant to this Policy, or credited against the "self-insured retention", except in the event of an "emergency response".
- **D.** "Legal defense expenses" reduce the Limits of Liability identified in Items **2.**, **3.** and **4.** of the Declarations to this Policy and shall be applied to the "self-insured retention".
- **E.** The Insurer shall present all settlement offers to the "insured". If the Insurer recommends a settlement which is acceptable to a claimant, exceeds any applicable "self-insured retention", is within the Limits of Liability, and does not impose any additional unreasonable burdens on the "insured", and the "insured" refuses to consent to such settlement offer, then the Insurer's duty to defend shall end. Thereafter, the "insured" shall defend such "claim" independently and at the "insured's" own expense. The Insurer's liability shall not exceed the amount for which the "claim" could have been settled if the Insurer's recommendation had been accepted, exclusive of the "self-insured retention".

#### IV. COVERAGE TERRITORY

The coverage afforded pursuant to this Policy shall only apply to "pollution conditions" located, and "claims" made, within the United States of America.

## V. DEFINITIONS

- **A.** "Additional insured" means any person or entity specifically endorsed onto this Policy as an "additional insured", if any. Such "additional insured" shall maintain only those rights that are specified by endorsement to this Policy.
- **B.** "Bodily injury" means physical injury, illness, disease, mental anguish, emotional distress, or shock, sustained by any person, including death resulting therefrom, and any prospective medical monitoring costs that are intended to confirm any such physical injury, illness or disease.

- **C.** "Certified industrial hygienist" means a licensed professional, as established by the American Board of Industrial Hygiene, that is:
  - 1. Mutually agreed upon by the Insurer and the "insured"; and
  - 2. Qualified by knowledge, skill, education and training to perform an assessment of the fungal or bacterial ecology of a property, building systems and/or contents, prepare an investigation protocol, interpret the results and prepare a scope of work to remediate the site to an ordinary ambient indoor air ecology for similar indoor environments.

The Insurer may also exercise the right to require that such "certified industrial hygienist" have certain minimum qualifications with respect to their competency, including experience with similar "fungi" or legionella pneumophila remediation projects.

- **D.** "Claim" means the written assertion of a legal right received by the "insured" from a third-party, including, but not limited to, a "government action", suits or other actions alleging responsibility or liability on the part of the "insured" for "bodily injury", "property damage" or "remediation costs" arising out of "pollution conditions" to which this insurance applies.
- **E.** "Contingent transportation" means the movement of the "insured's" waste or products by automobile, aircraft, watercraft, railcar or other conveyance beyond the boundaries of a "covered location" by a person or entity, other than an "insured", engaged in the business of transporting property for hire, until such time as the waste or product is unloaded from the automobile, aircraft, watercraft, railcar or other conveyance.
- F. "Covered location" means:
  - 1. Any location specifically identified in Item 8. of the Declarations to this Policy;
  - 2. Any location that meets the prerequisites to coverage identified in Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any; and
  - **3.** Any other location specifically scheduled as a "covered location" by endorsement attached to this Policy, if any.
- **G.** "Emergency response" means actions taken and reasonable "remediation costs" incurred within seventy-two (72) hours following the discovery of a "pollution condition" by an "insured" in order to abate or respond to an imminent and substantial threat to human health or the environment arising out of such "pollution condition".
- H. "Environmental indemnity obligations" means an "insured's" obligations to defend or indemnify a third-party with respect to a "pollution condition" to which this insurance otherwise applies, provided that such defense or indemnity obligation is explicitly included within a contract identified on the Schedule of Insured Contracts Endorsement attached to this Policy, if any.
- I. "Environmental law" means any federal, state, provincial, municipal or other local law, statute, ordinance, rule, guidance document, regulation, and all amendments thereto, including state voluntary cleanup or risk-based corrective action guidance, governing the liability or responsibilities of the "insured" with respect to a "pollution condition".
- **J.** "Extended reporting period" means the additional period of time in which to report a "claim" first made against the "insured" during or subsequent to the end of the "policy period".
- K. "First named insured" means the person or entity as identified in Item 1. of the Declarations to this Policy. The "first named insured" is the party responsible for the payment of any premiums and the payment of, or evidencing payment of, any applicable "self-insured retention" amounts. The "first named insured" shall also serve as the sole agent on behalf of all "insureds" with respect to the provision and receipt of notices, including notice of cancellation or non-renewal, receipt and acceptance of any endorsements or any other changes to this Policy, return of any premium, assignment of any interest pursuant to this Policy, as well as the exercise of any applicable "extended reporting period", unless any such responsibilities are otherwise designated by endorsement.

- **L.** "Fungi" means any type or form of fungus, including mold or mildew, and any mycotoxins, spores, scents, or byproducts produced or released by "fungi".
- **M.** "Government action" means action taken or liability imposed by any federal, state, provincial, municipal or other local government agency or body acting pursuant to the authority of "environmental law".
- N. "Illicit abandonment" means the intentional placement, abandonment or disposal of any solid, liquid, gaseous or thermal irritant, contaminant, or pollutant, including smoke, soot, vapors, fumes, acids, alkalis, chemicals, hazardous substances, hazardous materials, or waste materials, including "low-level radioactive waste", "mixed waste" and medical, infectious and pathological wastes, on, at or into a "covered location" by a person or entity that:
  - 1. Is not an "insured":
  - 2. Is not affiliated by common ownership with an "insured"; and
  - 3. Does not maintain, or has not maintained, an ownership or operational interest in the "covered location".
- **O.** "Insured" means the "first named insured", any "named insured", any "additional insured", and any past or present director or officer of, partner in, employee of, temporary or leased worker of, or, with respect to a limited liability company, a member of, any "insured" while acting within the scope of his or her duties as such.
- **P.** "Legal defense expense" means reasonable legal costs, charges, and expenses, including expert charges, incurred by the "insured" in the investigation, adjustment, or defense of "claims".
- **Q.** "Low-level radioactive waste" means waste that is radioactive but not classified as the following: high-level waste (spent nuclear fuel or the highly radioactive waste produced if spent fuel is reprocessed), uranium milling residues, and waste with greater than specified quantities of elements heavier than uranium.
- R. "Mixed waste" means waste containing both radioactive and hazardous components as defined pursuant to United States law within the Atomic Energy Act and the Resource Conservation and Recovery Act as either may be amended.
- **S.** "Named insured" means any person or entity specifically endorsed onto this Policy as a "named insured", if any. Such "named insured" shall maintain the same rights pursuant to this Policy as the "first named insured", except for those rights specifically reserved to the "first named insured" that are identified in Subsection **K.**, above.
- T. "Natural resource damage" means injury to, destruction of, or loss of, including the resulting loss of value of, fish, wildlife, biota, land, air, water, groundwater, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States of America (including the resources of the fishery conservation zone established by the Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. § 1801 et. seq.)), any state or local government, or any Native American Tribe, or, if such resources are subject to a trust restriction on alienation, any members of any Native American Tribe, including the reasonable costs of assessing such injury, destruction or loss resulting therefrom.
- **U.** "Non-owned disposal site" means any disposal site or recycling facility not owned or operated by an "insured", which receives, or has historically received, an "insured's" waste.
- V. "Policy period" means:
  - The period of time specifically identified in Item 2.a. of the Declarations to this Policy for Coverage A. and/or Item 3.a. of the Declarations to this Policy for Coverage B.;
  - 2. With respect to "covered locations" added pursuant to the Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any, the period of time following the closing date of the acquisition transaction or the effective date of the lease or, as applicable, through the applicable

expiration date of the Policy identified in Item **2.a.** or **3.a.** of the Declarations to this Policy with respect to New Pollution Conditions Coverage and Pre-Existing Pollution Conditions Coverage, respectively; or

3. Any shorter period resulting from the cancellation of this Policy.

#### W. "Pollution condition" means:

- 1. The presence of "fungi" or legionella pneumophila;
- 2. "Illicit abandonment"; or
- 3. The discharge, dispersal, release, escape, migration or seepage of any solid, liquid, gaseous or thermal irritant, contaminant, or pollutant, including smoke, soot, vapors, fumes, acids, alkalis, chemicals, hazardous substances, hazardous materials, or waste materials, on, in, into, or upon land and structures thereupon, the atmosphere, surface water, or groundwater. For the purpose of this definition, waste materials include, but are not limited to, "low-level radioactive waste" and "mixed waste".

## X. "Property damage" means:

- 1. Physical injury to, or destruction of, tangible property of a third-party, including all resulting loss of use of that property;
- 2. Loss of use of tangible property of a third-party, that is not physically injured or destroyed;
- 3. Diminished value of tangible property owned by a third-party; or
- 4. "Natural resource damages".
- Y. "Remediation costs" means reasonable expenses incurred to investigate, quantify, monitor, mitigate, abate, remove, dispose, treat, neutralize, or immobilize "pollution conditions" to the extent required by "environmental law". If no applicable laws exist that govern the remediation of "fungi" or legionella pneumophila in the jurisdiction of the "covered location", necessary "remediation costs" may be established by securing the written professional recommendations of a "certified industrial hygienist" retained with the prior approval of the Insurer.

#### "Remediation costs" shall also include:

- **1.** Reasonable legal cost, where such cost has been incurred by an "insured" with the written consent of the Insurer; and
- 2. Reasonable expenses required to restore, repair or replace real or personal property, to substantially the same condition it was in prior to being damaged during the course of responding to a "pollution condition".
- **Z.** "Responsible person" means any employee of an "insured" responsible for environmental affairs, control, or compliance at a "covered location", and any officer or director of, or partner in, an "insured".
- **AA.** "Self-insured retention" means the dollar amount identified in Item 2.d. of the Declarations to this Policy for Coverage **A.** and/or Item 3.d. of the Declarations to this Policy for Coverage **B.**, or as otherwise designated by endorsement to this Policy, if any.
- BB. "Terrorism" means activities against persons, organizations or property of any nature:
  - **1.** That involve the following or preparation for the following:
    - a. Use or threat of force or violence; or
    - b. Commission or threat of a dangerous act; or
    - **c.** Commission or threat of an act that interferes with or disrupts an electronic, communication, information, or mechanical system; and
  - **2.** When one or both of the following applies:

- **a.** The effect is to intimidate or coerce a government or the civilian population or any segment thereof, or to disrupt any segment of the economy; or
- **b.** It appears that the intent is to intimidate or coerce a government, or to further political, ideological, religious, social or economic objectives or to express (or express opposition to) a philosophy or ideology.
- **CC.**"Underground storage tank" means any tank and associated piping and appurtenances connected thereto which tank has more than ten percent (10%) of its volume below ground. "Underground storage tank" does not mean a septic tank or oil/water separator.
- **DD."War"** means war, whether or not declared, civil war, martial law, insurrection, revolution, invasion, bombardment or any use of military force, usurped power or confiscation, nationalization or damage of property by any government, military or other authority.

#### VI. EXCLUSIONS

This insurance shall not apply to:

#### A. Asbestos

"Claims", "remediation costs" or "legal defense expenses", arising out of or related to asbestos or asbestos-containing materials.

This exclusion shall not apply to "remediation costs" arising out of asbestos or asbestos-containing materials discovered in soil or groundwater.

#### **B.** Contractual Liability

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to liability of others assumed by any "insured" through contract or agreement, except if the liability would have attached to the "insured" in the absence of such contract or agreement.

This exclusion shall not apply to "environmental indemnity obligations".

## C. Divested Property

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to a "pollution condition" on, at, under or migrating from a "covered location" when such "pollution condition" first commenced after the "covered location" had been sold, abandoned, or given away by any "insured", or was condemned.

This exclusion shall not apply to Coverage B.

## D. Employers Liability

"Claims" or "legal defense expenses" arising out of or related to "bodily injury" to:

- 1. Any "insured" or any employee of its parent corporation, subsidiary or affiliate:
  - **a.** Arising out of, or in the course of, employment by any "insured", its parent corporation, subsidiary or affiliate; or
  - **b.** Performing duties related to the conduct of the business of any "insured", its parent corporation, subsidiary, or affiliate.
- **2.** The spouse, child, parent, brother or sister of any "insured" or employee of its parent corporation, subsidiary or affiliate as a consequence of Paragraph **1.**, above.

This exclusion applies:

- 1. Whether an "insured" may be liable as an employer or in any other capacity; and
- **2.** To any obligation to share damages with or repay someone else who must pay damages because of such "bodily injury".

#### E. Fines and Penalties

Payment of criminal fines, criminal penalties, punitive, exemplary or multiplied damages, or any associated "claims" seeking exclusively injunctive relief in addition to such fines, penalties or damages.

This exclusion also applies to any "legal defense expense" associated with such fines and penalties.

This exclusion shall not apply to punitive or exemplary damages where such coverage is insurable by law.

## F. First-Party Property Damage

"Claims" or "legal defense expenses" arising out of or related to damage to real or personal property owned by, leased to, loaned to, or rented by any "insured", or otherwise in the care, custody, or control of any "insured".

This exclusion shall not apply to "remediation costs".

#### G. Fraud or Misrepresentation

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to:

- 1. Fraudulent acts or material misrepresentations on the part of the "first named insured" made:
  - a. Within the Application to this Policy; or
  - b. During the Application or underwriting process prior to the inception date identified in Item 2.a. or 3.a. of the Declarations to this Policy, as applicable, which would have affected the Insurer's decision to either issue this Policy, or issue this Policy and its endorsements pursuant to the financial terms identified in the Declarations to this Policy; or
- **2.** Fraudulent acts or material misrepresentations on the part of any "responsible person" during the "policy period".

#### H. Insured's Internal Expenses

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to expenses incurred by any "insured" for services performed by its salaried staff and any employees.

This exclusion shall not apply to "emergency response" or any costs, charges or expenses incurred with the prior written approval of the Insurer at its sole discretion.

#### I. Insured vs. Insured

"Claims" made by any "insured" against any other "insured".

#### J. Intentional Non-Compliance

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to the intentional disregard of, or knowing, willful, or deliberate non-compliance with, any law, statute, regulation, administrative complaint, notice of violation, notice letter, instruction of any governmental agency or body, or executive, judicial or administrative order by any "responsible person".

#### K. Known Conditions

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to "pollution conditions" in existence and reported to a "responsible person":

- 1. Prior to the "policy period"; or,
- 2. With respect to "covered locations" acquired or leased by a "named insured" and added to the Policy during the "policy period" pursuant to an Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any, prior to the closing date of the acquisition or effective date of the lease of such "covered locations",

including any "pollution conditions" discovered during the normal course of further investigation or remediation of such reported "pollution conditions".

This exclusion shall not apply to:

- **1.** "Pollution conditions" specifically referenced in, or identified in documents listed on, the Schedule of Known Conditions Endorsement attached to this Policy, if any; or
- 2. "Pollution conditions" that have been reported to the "responsible person" as not being actionable pursuant to "environmental law" in any Phase I or Phase II Environmental Site Assessment report (or its functional equivalent) specifically prepared for a "named insured" by a qualified environmental consultant. To the extent that the qualified consultant's actionability determination is premised, in whole or in part, on the use of institutional or engineering controls in effect at a "covered location", any coverage afforded pursuant to this paragraph shall be contingent upon:
  - a. The continued maintenance of said engineering controls; and
  - **b.** The continued use of the property in a manner consistent with the consultant's reported assumptions,

during the "policy period".

#### L. Lead-Based Paint

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to lead-based paint.

This exclusion shall not apply to "remediation costs" arising out of lead-based paint discovered in soil or groundwater.

## M. Material Change in Risk

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to a change in the use or operations at a "covered location" that materially increases the likelihood or severity of a "pollution condition" or "claim" from the intended uses or operations identified:

- 1. By the "first named insured" for the Insurer in the Application and accompanying underwriting materials provided prior to the inception date identified in Item 2.a. or 3.a. of the Declarations to this Policy, as applicable; or
- 2. With respect to "covered locations" added to the Policy pursuant to the Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any, as part of the due diligence materials and supplemental underwriting materials provided to the Insurer as part of the notice required pursuant to that endorsement.

This exclusion shall only apply to the "covered location" associated with the change in use or operations and shall not limit coverage for other "covered locations" to which this insurance applies.

## N. Naturally Occurring Materials

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to the presence or removal of naturally occurring materials.

This exclusion shall not apply in those circumstances where naturally occurring substances are present at a "covered location" as a result of human activities or human processes.

#### O. Non-Owned Disposal Sites

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to "pollution conditions" on, at, under or migrating from a "non-owned disposal site".

This exclusion shall not apply to any "non-owned disposal site" specifically identified on a Schedule of Non-Owned Disposal Sites Endorsement attached to this Policy, if any.

## P. Underground Storage Tanks

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to "pollution conditions" emanating from an "underground storage tank" located at a "covered location", when the existence of such "underground storage tank" was known to a "responsible person" prior to the "policy period"; and

- **1.** The "underground storage tank" is not identified on the Schedule of Insured Underground Storage Tanks Endorsement attached to this Policy, if any; or
- **2.** The "underground storage tank" has been closed or removed, and is not identified on the Schedule of Known Conditions Endorsement attached to this Policy, if any.

#### Q. Vehicles

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to "pollution conditions" resulting from the use, maintenance or operation, including loading or unloading, of an automobile, aircraft, watercraft, railcar or other conveyance beyond the boundaries of a "covered location".

This exclusion shall not apply to "contingent transportation" if such coverage is added to this Policy by endorsement.

#### R. War or Terrorism

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to "pollution conditions" attributable, whether directly or indirectly, to any acts that involve, or that involve preparation for, "war" or "terrorism" regardless of any other cause or event that contributes concurrently or in any sequence to the injury or damage.

## **VII. REPORTING AND COOPERATION**

- **A.** The "insured" must see to it that the Insurer receives written notice of any "claim" or "pollution condition", as soon as practicable, at the address identified in Item **7.a.** of the Declarations to this Policy. Notice should include reasonably detailed information as to:
  - **1.** The identity of the "insured", including contact information for an appropriate person to contact regarding the handling of the "claim" or "pollution condition";
  - **2.** The identity of the "covered location";
  - 3. The nature of the "claim" or "pollution condition"; and
  - 4. Any steps undertaken by the "insured" to respond to the "claim" or "pollution condition".

In the event of a "pollution condition", the "insured" must also take all reasonable measures to provide immediate verbal notice to the Insurer.

#### **B.** The "insured" must:

- **1.** As soon as practicable, send the Insurer copies of any demands, notices, summonses or legal papers received in connection with any "claim";
- 2. Authorize the Insurer to obtain records and other information;
- Cooperate with the Insurer in the investigation, settlement or defense of the "claim";
- **4.** Assist the Insurer, upon the Insurer's request, in the enforcement of any right against any person or organization which may be liable to the "insured" because of "bodily injury", "property damage", "remediation costs" or "legal defense expense" to which this Policy may apply; and
- 5. Provide the Insurer with such information and cooperation as it may reasonably require.
- **C.** No "insured" shall make or authorize an admission of liability or attempt to settle or otherwise dispose of any "claim" without the written consent of the Insurer. Nor shall any "insured" retain any consultants or

- incur any "remediation costs" without the prior express written consent of the Insurer, except in the event of an "emergency response".
- **D.** Upon the discovery of a "pollution condition", the "insured" shall make every attempt to mitigate any loss and comply with applicable "environmental law". The Insurer shall have the right, but not the duty, to mitigate such "pollution conditions" if, in the sole judgment of the Insurer, the "insured" fails to take reasonable steps to do so. In that event, any "remediation costs" incurred by the Insurer shall be deemed incurred by the "insured", and shall be subject to the "self-insured retention" and Limits of Liability identified in the Declarations to this Policy.

#### VIII.EXTENDED REPORTING PERIOD

- **A.** The "first named insured" shall be entitled to a basic "extended reporting period", and may purchase an optional supplemental "extended reporting period", following Cancellation, as described in Subsection **A.**, Paragraph **1.** of Section **IX.**, **GENERAL CONDITIONS**, or nonrenewal.
- **B.** "Extended reporting periods" shall not reinstate or increase any of the Limits of Liability. "Extended reporting periods" shall not extend the "policy period" or change the scope of coverage provided. A "claim" first made against an "insured" and reported to the Insurer within the basic "extended reporting period" or supplemental "extended reporting period", whichever is applicable, shall be deemed to have been made and reported on the last day of the "policy period".
- **C.** Provided the "first named insured" has not purchased any other insurance to replace this Policy, the "first named insured" shall have a sixty (60) day basic "extended reporting period" without additional charge.
- D. Provided the "first named insured" has not purchased any other insurance to replace this Policy, the "first named insured" shall also be entitled to purchase a supplemental "extended reporting period" of up to thirty-four (34) months for not more than two hundred percent (200%) of the full premium identified in Item 5. of the Declarations to this Policy, and any additional premiums resulting from coverage added during the "policy period". Such supplemental "extended reporting period" starts when the basic "extended reporting period" ends. The Insurer shall issue an endorsement providing a supplemental "extended reporting period" provided that the "first named insured":
  - **1.** Makes a written request, to the address identified in Item **7.b.** of the Declarations to this Policy, for such endorsement which the Insurer receives prior to the expiration of the "policy period"; and
  - 2. Pays the additional premium when due. If that additional premium is paid when due, the supplemental "extended reporting period" may not be cancelled, provided that all other terms and conditions of the Policy are met.

#### IX. GENERAL CONDITIONS

#### A. Cancellation

- 1. This Policy may be cancelled only by the "first named insured", or through the "first named insured's" agent, by mailing to the Insurer at the address identified in Item 7.b. of the Declarations to this Policy, written notice stating when such cancellation shall be effective.
- 2. This Policy may be cancelled by the Insurer for the following reasons:
  - a. Non-payment of premium; or
  - **b.** Fraud or material misrepresentation on the part of any "insured,

by mailing to the "first named insured" at the "first named insured's" last known address, written notice stating when, not less than sixty (60) days thereafter, fifteen (15) days if cancellation is for non-payment of any unpaid portion of the premium, such cancellation shall be effective. The mailing of notice shall be sufficient proof of notice. The effective date and hour of cancellation stated in the notice shall be the end of the "policy period".

Subparagraph **2.b.**, herein, shall apply only to that "insured" that engages in the fraud or misrepresentation. This exception shall not apply to any "insured" who is a parent corporation, subsidiary, employer of, or otherwise affiliated by ownership with, such "insured".

**3.** In the event of cancellation, the premium percentage identified in Item **5.** of the Declarations to this Policy shall be the minimum-earned premium upon the inception date identified in Item **2.a.** of the Declarations to this Policy. Thereafter, the remaining unearned premium, if any, shall be deemed earned by the Insurer on a *pro rata* basis over the remainder of the "policy period". Any unearned premium amounts due the "first named insured" upon cancellation of this Policy shall be calculated on a *pro rata* basis and refunded within thirty (30) days of the effective date of cancellation.

#### B. Inspection and Audit

To the extent of the "insured's" ability to provide such access, and with reasonable notice to the "insured", the Insurer shall be permitted, but not obligated, to inspect and sample the "covered locations". The "insured" shall have the concurrent right to collect split samples. Neither the Insurer's right to make inspections, the making of said inspections, nor any report thereon shall constitute an undertaking, on behalf of or for the benefit of the "insured" or others, to determine or warrant that such property or operations are safe or in compliance with "environmental law", or any other law.

The Insurer may examine and audit the "insured's" books and records during this "policy period" and extensions thereof and within three (3) years after the final termination of this Policy.

#### C. Legal Action Against the Insurer

No person or organization other than an "insured" has a right pursuant to this Policy:

- 1. To join the Insurer as a party or otherwise bring the Insurer into a suit against any "insured"; or
- **2.** To sue the Insurer in connection with this insurance unless all of the Policy terms have been fully complied with.

#### D. Bankruptcy

The insolvency or bankruptcy of any "insured" or any "insured's" estate shall not relieve the Insurer of its obligations pursuant to this Policy. However, any such insolvency or bankruptcy of the "insured" or the "insured's" estate shall not relieve the "insured" of its "self-insured retention" obligations pursuant to this Policy. This insurance shall not replace any other insurance to which this Policy is excess, nor shall this Policy drop down to be primary, in the event of the insolvency or bankruptcy of any underlying insurer.

## E. Subrogation

In the event of any payment pursuant to this Policy by the Insurer, the Insurer shall be subrogated to all of the rights of recovery against any person or organization, and the "insured" shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights. The "insureds" shall do nothing to prejudice such rights. Any recovery as a result of subrogation proceedings arising pursuant to this Policy shall accrue first to the "insureds" to the extent of any payments in excess of the limit of coverage; then to the Insurer to the extent of its payment pursuant to the Policy; and then to the "insured" to the extent of the "self-insured retention". Expenses incurred in such subrogation proceedings shall be apportioned among the interested parties in the recovery in the proportion that each interested party's share in the recovery bears to the total recovery.

#### F. Representations

By accepting this Policy, the "first named insured" agrees that:

1. The statements in the Declarations, schedules and endorsements to, and Application for, this Policy are accurate and complete;

- 2. Those statements and representations constitute warranties that the "first named insured" made to the Insurer; and
- **3.** This Policy has been issued in reliance upon the "first named insured's" warranties.

## G. Separation of Insureds

Except with respect to the Limits of Liability, Cancellation condition **2.a.**, above, the Fraud or Misrepresentation Exclusion, the Insured vs. Insured Exclusion, the Intentional Non-Compliance Exclusion, the Known Conditions Exclusion, the Material Change in Risk Exclusion, the Underground Storage Tanks Exclusion, and any obligations specifically assigned to the "first named insured", this Policy applies:

- 1. As if each "named insured" were the only "insured"; and
- **2.** Separately to each "named insured" against whom a "claim" is made.

#### H. Other Insurance

If other valid and collectible insurance is available to any "insured" covering a loss also covered by this Policy, other than a policy that is specifically written to apply in excess of this Policy, the insurance afforded by this Policy shall apply in excess of and shall not contribute with such other insurance.

#### I. Jurisdiction and Venue

It is agreed that in the event of the failure of the Insurer to pay any amount claimed to be due hereunder, the Insurer and the "insured" shall submit to the exclusive jurisdiction of the State of New York and shall comply with all requirements necessary to give such court jurisdiction. Nothing in this clause constitutes or should be understood to constitute a waiver of the Insurer's right to remove an action to a United States District Court.

### J. Choice of Law

All matters arising hereunder, including questions relating to the validity, interpretation, performance, and enforcement of this Policy, and the rights, duties and obligations hereunder, shall be determined in accordance with the law and practices of the State of New York.

## K. Changes and Assignment

Notice to or knowledge possessed by any person shall not effect waiver or change in any part of this Policy or estop the Insurer from asserting any right pursuant to the terms of this Policy. The terms, definitions, conditions, exclusions and limitations of this Policy shall not be waived or changed, and no assignment of any interest in this Policy shall bind the Insurer, except as provided by endorsement and attached to this Policy.

## L. Headings

The descriptions in the headings and sub-headings of this Policy are inserted solely for convenience and do not constitute any part of the terms or conditions hereof.

#### M. Consent

Where the consent of the Insurer, or an "insured", is required pursuant to this Policy, such consent shall not be unreasonably withheld, delayed, conditioned, or denied.

# SCHEDULE OF NAMED INSUREDS (BROAD – MAJORITY OWNED CHAIN) ENDORSEMENT

| Named Insured                                                          |  |  | Endorsement Number |
|------------------------------------------------------------------------|--|--|--------------------|
| CCL Industries Corporation                                             |  |  | 1                  |
| Policy Symbol PPL                                                      |  |  |                    |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |  |  |                    |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

The persons or entities within the scope of the description contained in the Schedule of Named Insureds, below, are "named insureds" pursuant to this Policy.

### **Schedule of Named Insureds**

- 1. All corporations, limited partnerships, limited liability partnerships, limited liability companies or other business entities or associations, other than joint ventures and general partnerships, as now or may hereafter exist during the "policy period", in which the "first named insured", itself, or through a direct chain of underlying majority-owned operating subsidiary corporations, limited partnerships, limited liability partnerships, or limited liability companies, maintains at least a fifty percent (50%) ownership interest (hereinafter Majority-Owned Affiliates); and
- 2. All joint ventures or general partnerships, as now or may hereafter exist during the "policy period", to which the "first named insured", itself, or one of its Majority-Owned Affiliates, is a party and maintains at least a fifty percent (50%) ownership interest, but only to the extent of the "first named insured's" or Majority-Owned Affiliates' legal responsibility for the liabilities of such joint venture or general partnership.

All other terms and conditions of this Policy remain unchanged.

# SCHEDULE OF ADDITIONAL INSUREDS (BROAD – WITH BY CONTRACT) ENDORSEMENT (PPL III)

| Named Insured CCL Indust | ries Corporation                                                       |                                        | Endorsement Number 2                     |  |  |
|--------------------------|------------------------------------------------------------------------|----------------------------------------|------------------------------------------|--|--|
| Policy Symbol PPL        | Policy Number<br>G24876871 004                                         | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |  |  |
|                          | Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                        |                                          |  |  |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

The persons or entities within the scope of the description contained in the Schedule of Additional Insureds, below, are "additional insureds" pursuant to this Policy, but solely with respect to their vicarious liability arising out of any "named insured's" direct liability for a "pollution condition" on, at under or migrating from a "covered location" to which this insurance applies.

#### **Schedule of Additional Insureds**

- All corporations, limited partnerships, limited liability partnerships, limited liability companies or other business entities or associations, other than joint ventures and general partnerships, as now or may hereinafter exist during the "policy period", in which a "named insured" maintains an ownership interest:
- 2. All joint ventures or general partnerships, as now or may hereafter exist during the "policy period", to which a "named insured" is a party, as now or may hereinafter exist during the "policy period", but only to the extent of the "named insured's" legal responsibility for the vicarious liability of such joint venture or general partnership; and
- 3. All corporations, limited partnerships, limited liability partnerships, limited liability companies or other business entities or associations, as now or may hereafter exist during the "policy period", but solely to the extent that: a) a "named insured" is required by contractual agreement with such entity to provide such coverage; and b) the "named insured's" contractual agreement with such entity was executed and effective prior to any related "claim".

All other terms and conditions of this Policy remain unchanged.

# JURISDICTION AND VENUE/CHOICE OF LAW AMENDATORY (DELETION) ENDORSEMENT (PPL III/GPPL/PPL PORT)

| Named Insured CCL Industries Corporation |                                                 |                                        | Endorsement Number 3                     |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                        | Policy Number<br>G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| , ,                                      | e of Insurance Company)<br>on Insurance Company |                                        | -                                        |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section IX., GENERAL CONDITIONS, Subsections I., Jurisdiction and Venue, and J., Choice of Law, are hereby deleted in their entirety.

All other terms and conditions of this Policy remain unchanged.

# ASBESTOS COVERAGE (BODILY INJURY & PROPERTY DAMAGE ONLY) ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                  |                          | Endorsement Number            |  |
|------------------------------------------|----------------------------------|--------------------------|-------------------------------|--|
| CCL industries Corporation               |                                  |                          | •                             |  |
| Policy Symbol                            | Policy Number                    | Policy Period            | Effective Date of Endorsement |  |
| PPL                                      | G24876871 004                    | 03/31/2015 to 03/31/2018 | 03/31/2015                    |  |
| Issued By (Name of Insurance Company)    |                                  |                          |                               |  |
| Illinois Unio                            | Illinois Union Insurance Company |                          |                               |  |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **VI.**, **EXCLUSIONS**, Subsection **A.**, **Asbestos**, of this Policy is hereby deleted in its entirety and replaced with the following:

#### A. Asbestos

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to asbestos or asbestos-containing materials.

This exclusion shall not apply to:

- 1. Third-party "claims" for "bodily injury" and associated "legal defense expenses" arising out of asbestos or asbestos-containing materials;
- 2. Third-party, non-governmental "claims" for "property damage" and associated "legal defense expenses" arising out of asbestos or asbestos-containing materials; and
- **3.** "Remediation costs" arising out of asbestos or asbestos-containing materials discovered in soil or groundwater.

All other terms and conditions of this Policy remain unchanged.

## **AUTOMATIC ACQUISITION AND DUE DILIGENCE ENDORSEMENT (PPL III)**

| Named Insured CCL Industries Corporation |                                                 |                                        | Endorsement Number 5                     |  |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|--|
| Policy Symbol                            | Policy Number<br>G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |  |
|                                          | e of Insurance Company)<br>on Insurance Company |                                        |                                          |  |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

I. Section IX., GENERAL CONDITIONS, of this Policy is hereby amended by addition of the following:

## **Automatic Acquisition and Due Diligence**

- 1. It is understood and agreed that, for an additional premium amount, any property acquired or leased by a "named insured" during the "policy period" shall be added to the Policy as a "covered location" upon the closing date of such acquisition or the effective date of such lease, respectively; provided that the Insurer receives written notice of the property acquisition or lease within ninety (90) days of the closing date of such acquisition or the effective date of such lease, and the "named insured" completes the following environmental due diligence assessment of the property prior to such acquisition or lease:
  - a. The "named insured" commissions and receives a Phase I Environmental Site Assessment report on the property that is performed by a qualified environmental consultant in accordance with the ASTM Standard for Environmental Site Assessments: Phase I Environmental Site Assessment Process in effect as of the inception of this Policy; or
  - b. The "named insured" receives a Phase I Environmental Site Assessment report on the property that has been conducted by a qualified environmental consultant for a third-party, provided that the assessment and related report are prepared in accordance with the ASTM Standard for Environmental Site Assessments: Phase I Environmental Site Assessment Process in effect as of the inception of this Policy, and that the consultant responsible for the reports has provided the "named insured" with written confirmation that the "named insured", as applicable, is entitled to rely on the conclusions of the reports as if the assessment had been performed on its behalf.
- 2. If the Phase I Environmental Site Assessment does not identify any Recognized Environmental Conditions, as defined by the ASTM Standard for Environmental Site Assessments: Phase I Environmental Site Assessment Process in effect as of the inception of this Policy (hereinafter RECs), the property shall automatically be added to the Policy as an additional "covered location" effective on the date the "named insured" acquired the property or the effective date of the "named insured's" lease agreement.
- 3. If the Phase I Environmental Site Assessment identifies any RECs, then, before the property may be added to the Policy as a "covered location", the "named insured" must complete a Phase II Environmental Site Assessment. Thereafter, the Insurer shall have thirty (30) days to review and approve the Phase II Environmental Assessment report. Said approval shall not be unreasonably withheld, but the Insurer reserves the right to limit coverage with respect to any RECs identified at the property, and any "pollution conditions" identified during further investigation of such RECs. Upon such approval, the Insurer shall provide a written endorsement to the "first named insured" confirming the effective date that the property has been added to the Policy as an additional "covered location", and describing the extent of the

coverage being afforded with respect to the RECs and associated "pollution conditions" identified at the property.

**4.** Additional premium for "covered locations" added to this Policy pursuant to Paragraphs **1.** though **3.**, above, shall be calculated on a *pro rata* basis using the following rates:

# **Additional Premium Schedule**

| Acquired Property Type | Additional Premium |
|------------------------|--------------------|
| Industrial Sites       |                    |
| Commercial             |                    |
| Warehouses             |                    |
| Offices                |                    |

In the event a property of a type not described in the Additional Premium Schedule, above, is acquired or leased by a "named insured", the terms and conditions of this Subsection shall not apply.

All other terms and conditions of this Policy remain unchanged.

JOHN J. LUPICA, President

**Authorized Representative** 

# **BUSINESS INTERRUPTION AND DELAY EXPENSE ENDORSEMENT (PPL III)**

| Named Insured CCL Industries Corporation |                                                 |                                        | Endorsement Number 6                     |  |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|--|
| Policy Symbol                            | Policy Number<br>G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |  |
|                                          | e of Insurance Company)<br>on Insurance Company |                                        |                                          |  |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

I. Section I., INSURING AGREEMENTS, of this Policy is amended by addition of the following:

SUPPLEMENTAL COVERAGE - BUSINESS INTERRUPTION

Actual "business interruption loss" incurred by an "insured" during a "period of interruption" in excess of the Deductible Period.

The coverage afforded pursuant to this Supplemental Coverage only applies to "business interruption loss" that:

- 1. Is directly attributable to a "covered pollution condition"; and
- 2. Is reported to the Insurer, in writing, as soon as practicable, and during the "policy period".
- **II.** The amount the Insurer shall pay for "business interruption loss" pursuant to this Supplemental Coverage is limited by the following Sublimit of Liability and Deductible Period:

Sublimit of Liability: \$ 1,000,000

Deductible Period: 3 days

The Sublimit of Liability identified above shall be the maximum amount the Insurer shall pay for all "business interruption loss" arising out of all "covered pollution conditions". This Sublimit of Liability shall be subject to the Limits of Liability identified in the Declarations to this Policy. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit of Liability.

The Insurer shall have no obligation to pay any "business interruption loss" incurred during the Deductible Period.

III. Section V., **DEFINITIONS**, of this Policy is amended by addition of the following:

#### "Business income" means:

- **1.** Net profit or loss, before income taxes, including "rental income" from tenants, that would have been realized had there been no "business interruption";
- **2.** The "insured's" continuing operating and payroll expense (excluding payroll expense of officers, executives, department managers and contract employees);
- **3.** Costs incurred by the "insured" as rent for temporary premises when a portion of a "covered location" becomes untenantable due to a "covered pollution condition" and temporary premises are required to continue the "insured's" operations. Such rental costs cannot exceed the fair rental value of the untenantable portion of the "covered location".

**"Business interruption"** means necessary partial or complete suspension of the "insured's" operations at a "covered location" arising from a "covered pollution condition".

#### "Business interruption loss" means:

- 1. "Business income";
- 2. "Extra expense; and
- 3. "Delay expense".

**"Covered pollution condition"** means a "pollution condition" on, at or under a "covered location" for which coverage is otherwise afforded pursuant to this Policy pursuant to Coverages **A.** or **B,** only, for "remediation costs" resulting from the first-party discovery of such "pollution condition". The coverage afforded pursuant to this Endorsement shall not apply to any "business interruption loss" arising from or related to any "pollution conditions" for which coverage for "remediation costs" resulting from the first-party discovery of such "pollution conditions" is excluded pursuant to this Policy.

"Delay expense" means for a "covered location" under development, where a "covered pollution condition" causes a delay in the completion or development, any of the following expenses incurred shall be afforded coverage:

- **1.** Additional interest on money the "insured" has borrowed to finance the construction, development, or remediation of a project at a "covered location";
- 2. Additional realty taxes and other assessments;
- 3. Additional advertising or promotional expense;
- **4.** Additional expenses incurred resulting from the renegotiation of leases, including associated usual and customary legal representation expense; and
- 5. Additional engineering, architectural, and consulting fees.

**"Extra expense"** means costs incurred by the "insured" due to a "covered pollution condition", that are necessary to avoid or mitigate any "business interruption". Such costs must be incurred to actually minimize the amount of foregone "business income" that would otherwise be covered pursuant to this Endorsement.

"Period of interruption" means the length of time commencing with the date that operations are necessarily suspended at a "covered location" as a result of "covered pollution conditions".

"Rental income" means the actual rental fees lost as a result of a "suspension" of a rented "covered location".

"Suspension" means that part of or all of a rented "covered location" is rendered untenantable for the purposes identified to the Insurer at the inception of the Policy, due to "covered pollution conditions".

- **IV.** The following Conditions and Limitations shall apply to any coverage afforded pursuant to this Endorsement:
  - **A.** If such "business interruption" delays the start of the "insured's" operations, then the "period of interruption" shall begin on the date the operations would have begun if the "covered pollution condition" had not resulted in "business interruption".
  - **B.** The "period of interruption" shall end on the date that the subject "covered pollution condition" has been remedied to the point at which the "insured's" normal operations could reasonably be restored. Coverage shall not be afforded for any "covered pollution condition" resulting in loss of "business income" as a result of unfavorable business conditions caused by the impact of the "covered pollution condition".
  - **C.** If the Insurer and the "insured" disagree on the amount of "business income" or any other amount that is or may be covered pursuant to this Endorsement, either may make written demand for an appraisal of the loss. In this event, each party shall select a competent and impartial appraiser. If necessary,

the two appraisers shall select an umpire. If they cannot agree, either may request that selection be made by a judge of a court having jurisdiction. The appraisers shall state separately the amount of "business income" or any other amount. If they fail to agree to a resolution, they shall submit their differences to the umpire. A decision agreed to by the appraisers, of the umpire, if necessary, shall be binding upon both parties. Each party shall:

- 1. Pay its chosen appraiser; and
- 2. Bear the other expenses of the appraisal and umpire equally.

If there is an appraisal, the Insurer shall still retain all of its rights pursuant to the Policy to deny all or a portion of the claim.

V. Section VI., EXCLUSIONS, of this Policy is hereby amended by addition of the following:

This insurance also does not apply to "business interruption loss" arising out of or related to any of the individually excluded exposures identified above.

All other terms and conditions of this Policy remain unchanged.

# COVERAGE LIMITATION AND REOPENER ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation                               |                                |                                        | Endorsement Number 7                     |
|------------------------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                                                      | Policy Number<br>G24876871 004 | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                |                                        |                                          |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

|    | , ,                                                                                                           |
|----|---------------------------------------------------------------------------------------------------------------|
| I. | COVERAGE LIMITATION:                                                                                          |
|    | "emergency response costs"; *                                                                                 |
|    | ☐ "business interruption loss"; *                                                                             |
|    | X "diminution in value"; *                                                                                    |
|    | rental income"; *                                                                                             |
|    | catastrophe management costs"; *                                                                              |
|    | X "remediation costs";                                                                                        |
|    | rproperty damage";                                                                                            |
|    | "bodily injury",                                                                                              |
|    | *to the extent applicable due to such Supplemental Coverage being added to this Policy by endorsement hereto. |

Coverage is not afforded pursuant to this Policy for any of the exposures indicated above, including any

associated "legal defense expenses", with respect to those specific "pollution conditions" identified in the Schedule of Limited Coverage, below.

#### II. RE-OPENER OF COVERAGE:

In the event that "closure" is achieved with respect any of the "pollution conditions" identified in Schedule of Limited Coverage, below, then coverage limitations set forth in Section I., above, may be deleted with respect to those "pollution conditions" that achieve such "closure". The coverage limitations identified in Section I., above, can only be deleted by endorsement to this Policy issued by the Insurer.

III. For the purposes of this Endorsement, "closure" shall mean that the "insured" obtains a written No Further Action determination, or otherwise achieves closure in accordance with the regulatory requirements applicable to the subject "pollution conditions", which has been confirmed in writing by the regulatory agency or authority with jurisdiction over the "pollution conditions".

If such "closure" is contingent upon: 1) certain additional actions with respect to the subject "pollution conditions" in order to be effective; or 2) on the use of institutional or engineering controls in effect at a "covered location", then any such additional actions must be completed in order for coverage to be effective pursuant to this Endorsement, and such coverage shall be contingent upon the continued maintenance of said engineering controls and the continued use of the "covered location" in a manner consistent with said institutional control, as applicable, during the "policy period" or any "extended reporting period".

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

## **SCHEDULE OF LIMITED COVERAGE**

- 1. 1 Hegeler LaneDanville, IL: tetrachloroethene, bromodichloromethane, chloroform, 1,1,1-trichloroethane; 1,1-dichloroethane; 1,1-dichloroethene; cis-1,2-dichloroethene; trans-1,2-dichloroethene; trichlorofluoromethane; vinyl chloride; chloroethane in groundwater
- 2. 35 Martin Drive, Cumberland, Rhode Island: 1,1-dichloroethene; 1,2-dichloroethene; methylene chloride; tetrachloroethene; 1,1,1-trichloroethene; ethylbenzene; styrene, toluene, xylenes in soils
- 3. 35 Martin Drive, Cumberland, Rhode Island: 1,1-dichloroethene; 1,2-dichloroethene; methylene chloride; tetrachloroethene; 1,1,2-trichloroethene; trichloroethene; benzene; vinyl chloride; bis(2ethylhexyl) phthalate, chlordane; acetone, cadmium, copper, arsenic in groundwater

All other terms and conditions of this Policy remain unchanged.

JOHN J. LUPICA, President

Authorized Representative

# **BASIC EXTENDED REPORTING PERIOD (90 DAYS) ENDORSEMENT (PPL III)**

| Named Insured CCL Industries Corporation |                                                 |                                        | Endorsement Number 8                     |  |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|--|
| Policy Symbol                            | Policy Number<br>G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |  |
|                                          | e of Insurance Company)<br>on Insurance Company |                                        |                                          |  |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **VIII.**, **EXTENDED REPORTING PERIOD**, Subsections **C.** and **D.**, of this Policy are hereby deleted in their entirety and replaced with the following:

- **C.** Provided the "first named insured" has not purchased any other insurance to replace this Policy, the "first named insured" shall have a ninety (90) day basic "extended reporting period" without additional charge.
- D. Provided the "first named insured" has not purchased any other insurance to replace this Policy, the "first named insured" shall also be entitled to purchase a supplemental "extended reporting period" of up to thirty-three (33) months for not more than two hundred percent (200%) of the full premium identified in Item 5. of the Declarations to this Policy, and any additional premiums resulting from coverage added during the "policy period". Such supplemental "extended reporting period" starts when the basic "extended reporting period" ends. The Insurer shall issue an endorsement providing a supplemental "extended reporting period" provided that the "first named insured":
  - 1. Makes a written request, to the address identified in Item 7.b. of the Declarations to this Policy, for such endorsement which the Insurer receives prior to the expiration of the "policy period"; and
  - 2. Pays the additional premium when due. If that additional premium is paid when due, the supplemental "extended reporting period" may not be cancelled, provided that all other terms and conditions of the Policy are met.

All other terms and conditions of this Policy remain unchanged.

### FIRST-PARTY PROPERTY VALUE DIMINUTION COVERAGE ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                                 |                                        | Endorsement Number 9                     |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                        | Policy Number<br>G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
|                                          | e of Insurance Company)<br>In Insurance Company |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

I. Section I., INSURING AGREEMENTS, of this Policy is hereby amended by addition of the following:

#### SUPPLEMENTAL COVERAGE

Actual "diminution in value" incurred by an "insured", in excess of the "self-insured retention", arising out of a "covered pollution condition".

The coverage afforded pursuant to this Supplemental Coverage only applies to "diminution in value" that is reported to the Insurer, in writing, as soon as practicable, and during the "policy period".

**II.** The amount the Insurer shall pay for "diminution in value" pursuant to this Supplemental Coverage is limited by the following Aggregate Sublimit of Liability:

### Aggregate Sublimit of Liability \$ 1,000,000

The Aggregate Sublimit of Liability identified above shall be the maximum amount the Insurer shall pay for all "diminution in value" arising out of all "pollution conditions" otherwise covered pursuant to this Policy. This Aggregate Sublimit of Liability shall be subject to the Limits of Liability identified in the Declarations to this Policy. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit of Liability.

**III.** Section **V.**. **DEFINITIONS**, of this Policy is hereby amended by addition of the following:

"Covered pollution condition" means a "pollution condition" on, at or under a "covered location" for which coverage is otherwise afforded pursuant to this Policy pursuant to Coverages A. or B, only, for "remediation costs" resulting from the first-party discovery of such "pollution condition". The coverage afforded pursuant to this Endorsement shall not apply to any "diminution in value" arising out of or related to any "pollution conditions" for which coverage for "remediation costs" resulting from the first-party discovery of such "pollution conditions" is excluded pursuant to this Policy.

"Diminution in value" means the decrease in fair market value of a "covered location" as measured by either:

- 1. An amount developed in a final adjudication by a tax court of competent jurisdiction; or
- **2.** By generally accepted property appraisal methods, including, but not limited to mortgage-equity analysis or sales comparison methods.
- IV. If the Insurer and the "insured" disagree on the amount of "diminution in value" that is or may be covered pursuant to this endorsement, either may make written demand for an appraisal of such "diminution in value". In that event, each party shall select a competent and impartial appraiser. If necessary, the two appraisers shall select an umpire. If the appraisers cannot agree, either may request that the umpire selection be made by a judge of a court having jurisdiction over the matter. The appraisers shall state separately the amount of "diminution in value". If the appraisers fail to agree to a resolution, they shall submit their differences to the

umpire. A decision agreed to by the appraisers, of the umpire, if necessary, shall be binding upon all parties to this Policy. Each party shall:

- 1. Pay its chosen appraiser; and
- 2. Bear the other expenses of the appraisal and umpire equally.

If there is an appraisal, the Insurer shall still retain all of its rights pursuant to this Policy to deny all or a portion of any "claim".

V. Section VI., EXCLUSIONS, of this Policy is hereby amended by addition of the following:

This insurance also does not apply to "diminution in value" arising out of or related to any of the individually excluded exposures identified above.

All other terms and conditions of this Policy remain unchanged.

JOHN J. LUPICA, President

Authorized Representative

### FUNGI AND LEGIONELLA COVERAGE (SUBLIMIT) ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                              |                                        | Endorsement Number 10                    |
|------------------------------------------|----------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol<br>PPL                     | Policy Number<br>G24876871 004               | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
|                                          | of Insurance Company)<br>n Insurance Company | ,                                      | ,                                        |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY PLEASE READ IT CAREFULLY

|   | THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CARLE GLET.                                                                                                                                                                                                                                                                                                                                                                        |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| е | "insured" and the Insurer hereby agree to the following changes to this Policy:                                                                                                                                                                                                                                                                                                                                                        |
|   | \$ 250,000 shall be the Aggregate Sublimit of Liability applicable to any coverage pursuant to this Policy for "claims", "remediation costs", and associated "legal defense expense" arising out of or related to "fungi" or <i>legionella pneumophila</i> . Therefore, this Aggregate Sublimit of Liability shall be the maximum amount the Insurer shall pay for all of the exposures specifically indicated below:                  |
|   | "emergency response costs"; *                                                                                                                                                                                                                                                                                                                                                                                                          |
|   | X "business interruption loss"; *                                                                                                                                                                                                                                                                                                                                                                                                      |
|   | diminution in value"; *                                                                                                                                                                                                                                                                                                                                                                                                                |
|   | rental income"; *                                                                                                                                                                                                                                                                                                                                                                                                                      |
|   | catastrophe management costs"; *                                                                                                                                                                                                                                                                                                                                                                                                       |
|   | X "remediation costs";                                                                                                                                                                                                                                                                                                                                                                                                                 |
|   | X "claims",                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   | *to the extent applicable due to such Supplemental Coverage being added to this Policy by endorsement hereto.                                                                                                                                                                                                                                                                                                                          |
|   | and associated "legal defense expense" arising out of "pollution conditions" resulting from the presence of "fungi" or <i>legionella pneumophila</i> to which this Policy applies. This Aggregate Sublimit of Liability shall be subject to the Limits of Liability identified in the Declarations to this Policy. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit of Liability. |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                        |

All other terms and conditions of this Policy remain unchanged.

# LEAD-BASED PAINT COVERAGE (BODILY INJURY & PROPERTY DAMAGE ONLY) ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                                 |                                        | Endorsement Number 11                    |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                        | Policy Number G24876871 004                     | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
|                                          | e of Insurance Company)<br>on Insurance Company |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section VI., EXCLUSIONS, Subsection L., Lead-Based Paint, of this Policy is hereby deleted in its entirety and replaced with the following:

#### L. Lead-Based Paint

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to lead-based paint.

This exclusion shall not apply to:

- **1.** Third-party "claims" for "bodily injury" and associated "legal defense expenses" arising out of lead-based paint;
- 2. Third-party, non-governmental "claims" for "property damage" and associated "legal defense expenses" arising out of lead-based paint; and
- 3. "Remediation costs" arising out of lead-based paint discovered in soil or groundwater.

All other terms and conditions of this Policy remain unchanged.

# NON-OWNED DISPOSAL SITES COVERAGE (BLANKET - NEW WASTE AND HISTORICAL WASTE) ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                                 | Endorsement Number 12                  |                                          |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                        | Policy Number<br>G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| , ,                                      | e of Insurance Company)<br>on Insurance Company |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

- Section V., DEFINITIONS, Subsection F., of this Policy is hereby deleted in its entirety and replaced with the following:
  - F. "Covered location" means:
    - 1. Any location specifically identified in Item 8. of the Declarations to this Policy;
    - **2.** Any location that meets the prerequisites to coverage identified in Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any:
    - **3.** Any "non-owned disposal site", provided that any coverage afforded with respect to such "non-owned disposal sites" is limited to third-party "claims" pursuant to Subsection **D.**, above; and
    - **4.** Any other location specifically scheduled as a "covered location" by endorsement attached to this Policy, if any.
- II. Solely with respect to coverage for any "non-owned disposal sites" pursuant to this Endorsement, Section V., DEFINITIONS, Subsections D. and U., of this Policy are hereby deleted in their entirety and replaced with the following:
  - **D.** "Claim" means the written assertion of a legal right received by the "insured" from a third-party, including, but not limited to, a "government action", suits or other actions alleging responsibility or liability on the part of the "insured" for "bodily injury", "property damage" or "remediation costs" arising out of "pollution conditions" to which this insurance applies.
    - With respect to any coverage afforded with respect "non-owned disposal sites", covered "claims" are limited to those made by or on behalf of third-parties for "pollution conditions" allegedly attributable to an "named insured's" waste that is: 1) generated at a "covered location" other than a "non-owned disposal site"; and 2) received at the "non-owned disposal site" prior to the expiration date identified in Item 2.a. of the Declarations to this Policy.
  - U. "Non-owned disposal site" means:
    - 1. Any disposal site or recycling facility located within the United States of America that has not at any time been owned or operated, in whole or in part, by any "insured", which receives, or has historically received, a "named insured's" waste for disposal; provided that such disposal site or recycling facility:
      - **a.** Was properly permitted and licensed pursuant to "environmental laws" to accept the "named insured's" wastes at the time of such disposal by all federal, state or other administrative or regulatory bodies or agencies with applicable jurisdiction;
      - **b.** Was not owned or operated by any person, corporation or unincorporated association that was in bankruptcy at the time the "named insured's" waste was received for disposal;

- c. Has not, at any time prior to the inception date of this Policy, been identified on the United States EPA (CERCLA) National Priorities List, CERCLIS List or pursuant to any functional equivalent of those listings made by federal, state, or other administrative or regulatory bodies or agencies with applicable jurisdiction pursuant to "environmental laws"; and
- **d.** Was not undergoing voluntary or regulatory-required remediation activities at the time the "named insured's" waste was received for disposal; or
- **2.** Any disposal site or recycling facility specifically identified on a Schedule of Disposal Sites Endorsement attached to this Policy, if any.
- **III.** Section **VI.**, **EXCLUSIONS**, Subsection **O.**, **Non-Owned Disposal Sites**, of this Policy is hereby deleted in its entirety and replaced with the following:

### O. Disposal Sites

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to "pollution conditions" on, at, under or migrating from disposal sites or recycling facilities that are not "non-owned disposal sites".

All other terms and conditions of this Policy remain unchanged.

### NOTICE OF CANCELLATION (120 DAYS) ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                              |                                        | Endorsement Number 13                    |
|------------------------------------------|----------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                        | Policy Number<br>G24876871 004               | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
|                                          | e of Insurance Company) on Insurance Company | -                                      |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **IX.**, **GENERAL CONDITIONS**, Subsection **A.**, **Cancellation**, Paragraph **2.**, of this Policy is hereby deleted in its entirety and replaced with the following:

- 2. This Policy may be cancelled by the Insurer for the following reasons:
  - a. Non-payment of premium; or
  - **b.** Fraud or material misrepresentation on the part of any "insured",

by mailing to the "first named insured" at the "first named insured's" last known address, written notice stating when, not less than one hundred and twenty (120) days thereafter, fifteen (15) days if cancellation is for non-payment of any unpaid portion of the premium, such cancellation shall be effective. The mailing of notice shall be sufficient proof of notice. The effective date and hour of cancellation stated in the notice shall be the end of the "policy period".

Subparagraph **2.b.**, herein, shall apply only to that "insured" that engages in the fraud or misrepresentation. This exception shall not apply to any "insured" who is a parent corporation, subsidiary, employer of, or otherwise affiliated by ownership with, such "insured".

All other terms and conditions of the Policy remain unchanged.

### OTHER INSURANCE (PRIMARY) ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                                 |                                        | Endorsement Number 14                    |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                        | Policy Number<br>G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
|                                          | e of Insurance Company)<br>on Insurance Company | 1                                      |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **IX.**, **GENERAL CONDITIONS**, Subsection **H.**, **Other Insurance**, of this Policy is hereby deleted in its entirety and replaced with the following:

### H. Other Insurance

If other valid and collectible insurance is available to the "insured" covering a loss also covered by this Policy, the insurance afforded by this Policy shall apply as primary insurance.

All other terms and conditions of this Policy remain unchanged.

### PRIOR CLAIMS EXCLUSIONARY (ITEMIZED) ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                                 |                                        | Endorsement Number 15                    |
|------------------------------------------|-------------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                        | Policy Number<br>G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
|                                          | e of Insurance Company)<br>on Insurance Company |                                        | 1                                        |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section VI., EXCLUSIONS, of this Policy is hereby amended by addition of the following:

This Insurance also does not apply to:

### **Prior Claims**

The "claims" specifically identified below (collectively hereinafter Identified Claims), along with any current or subsequent "claims" made in conjunction with such Identified Claims (e.g., counterclaims, cross-claims or third-party claims made as part of the Identified Claims, any associated appeals of the Identified Claims, any "claims" ultimately consolidated with the Identified Claims, or any "claims" involving different plaintiffs but the same collection of operative facts and/or allegations contained in the Identified Claims), and any associated "legal defense expense".

• Any "claims" based upon, associated with or arising out of the LWD Superfund site located in Calvert City, Kentucky.

All other terms and conditions of this policy remain unchanged.

### TRANSPORTATION COVERAGE ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation                               |                                |                                        | Endorsement Number 16                    |
|------------------------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                                                      | Policy Number<br>G24876871 004 | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

- Section I., INSURING AGREEMENTS, Subsection A., NEW POLLUTION CONDITIONS, of this Policy is hereby deleted in its entirety and replaced with the following:
  - A. NEW POLLUTION CONDITIONS (Coverage A.)

"Claims", "remediation costs", and associated "legal defense expenses", in excess of the "selfinsured retention", arising out of a "pollution condition": 1) on, at, under, or migrating from a "covered location"; or 2) resulting from "transportation", provided the "claim" is first made or the "insured" first discovers such "pollution condition" during the "policy period". Any such discovery of a "pollution condition" must be reported to the Insurer in writing during the "policy period". Any such "claim" must be reported to the Insurer, in writing, during the "policy period" or any applicable "extended reporting period".

The coverage afforded pursuant to this Coverage A. only applies to "pollution conditions" that first commence, in their entirety, during the "policy period".

- II. Section V., DEFINITIONS, Subsection E., of this Policy is hereby deleted in its entirety and replaced with the followina:
  - E. "Transportation" means the movement of the "insured's" waste or products by automobile, aircraft, watercraft, railcar or other conveyance beyond the boundaries of a "covered location" by an "insured", or by a person or entity, other than an "insured", engaged in the business of transporting property for hire, until such time as the waste or product is unloaded from an automobile, aircraft, watercraft, railcar or other conveyance.
- III. Section VI., EXCLUSIONS, Subsection Q., Vehicles, of this Policy is hereby deleted in its entirety and replaced with the following:

### Q. Vehicles

"Claims", "remediation costs" or "legal defense expenses" arising out of or related to "pollution conditions" resulting from the use, maintenance or operation, including loading or unloading, of an automobile, aircraft, watercraft, railcar or other conveyance beyond the boundaries of a "covered location".

This exclusion shall not apply to "transportation".

All other terms and conditions of this Policy remain unchanged.

JOHN J. LUPICA, President

Authorized Representative

### **UNDERGROUND STORAGE TANK COVERAGE (BLANKET) ENDORSEMENT (PPL III)**

| Named Insured CCL Industries Corporation                               |                                |                                        | Endorsement Number 17                    |
|------------------------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                                                      | Policy Number<br>G24876871 004 | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **VI.**, **EXCLUSIONS**, Subsection **P.**, **Underground Storage Tanks**, of this Policy is hereby deleted in its entirety.

All other terms and conditions of this Policy remain unchanged.

### WAIVER OF SUBROGATION ENDORSEMENT (PPL III)

| Named Insured CCL Industries Corporation |                                              |                                        | Endorsement Number 18                    |
|------------------------------------------|----------------------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                        | Policy Number G24876871 004                  | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
|                                          | e of Insurance Company) on Insurance Company |                                        | 1                                        |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **IX.**, **GENERAL CONDITIONS**, Subsection **E.**, **Subrogation**, of this Policy is hereby deleted in its entirety and replaced with the following:

### E. Subrogation

In the event of any payment pursuant to this Policy by the Insurer, the Insurer shall be subrogated to all of the rights of recovery against any person or organization, and the "insured" shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights. All "insureds" shall do nothing to prejudice such rights. Any recovery as a result of subrogation proceedings arising pursuant to this Policy shall accrue first to the "insureds" to the extent of any payments in excess of the limit of coverage; then to the Insurer to the extent of its payment pursuant to the Policy; and then to the "insured" to the extent of the "self-insured retention". Expenses incurred in such subrogation proceedings shall be apportioned among the interested parties in the recovery in the proportion that each interested party's share in the recovery bears to the total recovery.

Notwithstanding the foregoing, the Insurer hereby waives its rights to subrogate against the entities identified below:

1. Any entity or organization that the "named insured" has agreed, pursuant to a written contract, to waive its rights of subrogation, where such contract is executed prior to the relevant "claim" or "remediation costs" to which this insurance applies.

All other terms and conditions of this Policy remain unchanged.

JOHN J. LUPICA, President

Authorized Representative

### KNOWN CONDITIONS EXCLUSION AMENDATORY ENDORSEMENT

| Named Insured CCL Industries Corporation                               |                                |                                        | Endorsement Number 19                    |
|------------------------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                                                      | Policy Number<br>G24876871 004 | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **VI.**, **EXCLUSIONS**, Subsection **K.**, **Known Conditions**, of this Policy is hereby deleted in its entirety and replaced with the following following:

### K. Known Conditions

"Claims", "remediation costs", "foreign subsidiary loss", or associated "legal defense expenses", arising out of or related to "pollution conditions" in existence prior to the "policy period" or, with respect to "covered locations" added to the Policy pursuant to the Automatic Acquisition Endorsement attached hereto, prior to the effective date of the acquisition of such "covered locations", and reported to a "responsible person", but not disclosed to the Insurer in the Application or accompanying documents provided to the Insurer prior to the inception date identified in Item 2. of this Policy, or any previous policy for which this Policy is a renewal thereof.

This exclusion shall not apply to:

- **1.** Non-governmental "claims" for "bodily injury" or "property damage" to which this insurance applies; or
- 2. Any "pollution conditions" that have been reported to the "responsible person" as not being actionable under "environmental laws" in any Phase I or Phase II Environmental Site Assessment report by a qualified environmental consultant. To the extent that the qualified consultant's actionability determination is premised, in whole or in part, on the use of, or engineering controls in effect at, a "covered location", any coverage afforded under this paragraph shall be contingent upon:
  - a. The "insured's" maintenance of said engineering controls; and
  - **b.** The continued use of the property in a manner consistent with the consultant's reported assumptions, during the "policy period".

All other terms and conditions of this Policy remain unchanged.

### SELF-INSURED RETENTION TO DEDUCTIBLE AMENDATORY ENDORSEMENT

| Named Insured CCL Industries Corporation                               |  | Endorsement Number 20 |                                          |
|------------------------------------------------------------------------|--|-----------------------|------------------------------------------|
| Policy Symbol PPL                                                      |  |                       | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |  |                       |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

- I. SectionI., **INSURING AGREEMENTS**, is deleted in its entirety and replaced with the following:
  - A. NEW POLLUTION CONDITIONS (Coverage A.)

"Claims", "remediation costs", and associated "legal defense expenses", in excess of the "deductible", arising out of a "pollution condition" on, at, under, or migrating from a "covered location", provided the "claim" is first made, or the "insured" first discovers such "pollution condition", during the "policy period". Any such discovery of a "pollution condition" must be reported to the Insurer, in writing, during the "policy period". Any such "claim" must be reported to the Insurer, in writing, during the "policy period" or any applicable "extended reporting period".

The coverage afforded pursuant to this Coverage **A.** only applies to "pollution conditions" that first commence, in their entirety, on or after the inception date identified in Item **2.a.** of the Declarations to this Policy.

**B.** PRE-EXISTING POLLUTION CONDITIONS (Coverage **B**.)

"Claims", "remediation costs", and associated "legal defense expenses", in excess of the "deductible", arising out of a "pollution condition" on, at, under, or migrating from a "covered location", provided the "claim" is first made, or the "insured" first discovers such "pollution condition", during the "policy period". Any such discovery of a "pollution condition" must be reported to the Insurer, in writing, during the "policy period". Any such "claim" must be reported to the Insurer, in writing, during the "policy period" or any applicable "extended reporting period".

The coverage afforded pursuant to this Coverage **B.** only applies to "pollution conditions" that first commenced, in whole or part, prior to the inception date identified in Item **3.a.** of the Declarations to this Policy.

- II. Section II., LIMITS OF LIABILITY AND SELF-INSURED RETENTION, Subsections A. and B., of this Policy are hereby deleted in its entirety and replaced with the following:
  - **A.** The Insurer shall pay on behalf of the "insured" for any "claims" or "remediation costs" covered pursuant to this Policy, including "legal defense expenses", but only for those amounts that are in excess of the Deductible amount shown in the Declarations. In the event the "insured" fails to satisfy its Deductible obligations pursuant to this Policy, the Insurer will pay, subject to the Limits of Liability of this Policy, all of any outstanding Deductible amount to effect resolution of any "claim" and/or to satisfy all "remediation costs". If the Insurer makes any such payment, upon receipt of notice from the Insurer, the "first named insured" shall promptly reimburse the Insurer for all amounts paid by the Insurer.
  - **B.** One "deductible" shall apply to all "claims", "remediation costs" and "legal defense expenses" arising from the same, continuous, repeated, or related "pollution condition".
- III. Section III., **DEFENSE AND SETTLEMENT**, Subsections **B.**, **C.**, **D.**, and **E.**, of this Policy are hereby deleted in their entirety and replaced with the following:
  - **B.** The Insurer shall have the right to select legal counsel to represent the "insured" for the investigation, adjustment, and defense of any "claims" covered under this Policy. Selection of legal counsel by the Insurer shall not be done without the consent of the "insured"; such consent

shall not be unreasonably withheld. "Legal defense expenses" incurred prior to the selection of legal counsel by the Insurer shall not be covered under this Policy, or credited against the "deductible".

In the event the "insured" is entitled by law to select independent counsel to defend itself at the Insurer's expense, the attorney fees and all other litigation expenses the Insurer shall pay to that counsel are limited to the rates the Insurer actually pays to counsel that the Insurer normally retains in the ordinary course of business when defending "claims" or lawsuits of similar complexity in the jurisdiction where the "claim" arose or is being defended. In addition, the "insured" and the Insurer agree that the Insurer may exercise the right to require that such counsel: 1) have certain minimum qualifications with respect to their competency, including experience in defending "claims" similar to those being asserted against the "insured"; 2) maintain suitable errors and omissions insurance coverage; 3) be located within a reasonable proximity to the jurisdiction of the "claim"; and 4) agree in writing to respond in a timely manner to the Insurer's requests for information regarding the "claim". The "insured" may at anytime, by its signed consent, freely and fully waive its right to select independent counsel.

- **C.** The "insured" shall have the right and the duty to retain a qualified environmental consultant to perform any investigation and/or remediation of any "pollution condition" covered under this Policy. The "insured" must receive the written consent of the Insurer prior to the selection and retention of such consultant, except in the event of an "emergency response". Any costs incurred prior to such consent shall not be covered under this Policy, or credited against the "deductible", except in the event of an "emergency response".
- **D.** "Legal defense expenses" reduce the Limits of Liability identified in Items **2., 3.** and **4.** of the Declarations and shall be applied to the "deductible".
- **E.** The Insurer shall present all settlement offers to the "insured". If the Insurer recommends a settlement which is acceptable to a claimant, exceeds any applicable "deductible", is within the Limits of Liability, and does not impose any additional unreasonable burdens on the "insured", and the "insured" refuses to consent to such settlement offer, then the Insurer's duty to defend shall end. The "insured" shall defend such "claim" independently. The Insurer's liability shall not exceed the amount for which the "claim" could have been settled if the Insurer's recommendation had been accepted, exclusive of the "deductible".
- **IV.** Section **V.**, **DEFINITIONS**, Subsections **K.** and **AA.**, of this Policy are hereby deleted in their entirety and replaced with the following:
  - K. "First named insured" means the person or entity as identified in Item 1. of the Declarations. The "first named insured" is the party responsible for the payment of any premiums and the payment of, or evidencing payment of, any applicable "deductible" amounts. The "first named insured" shall also serve as the sole agent on behalf of all "insureds" with respect to the provision and receipt of notices, including notice of cancellation or non-renewal, receipt and acceptance of any endorsements or any other changes to this Policy, return of any premium, assignment of any interest under this Policy, as well as the exercise of any applicable "extended reporting period", unless any such responsibilities are otherwise designated by endorsement.
  - **AA.** "**Deductible**" means the dollar amount indicated in Items **2.d.** or **3.d.**, of the Declarations to this Policy, or as otherwise designated by endorsement, if any.
- V. Section VII., REPORTING AND COOPERATION, Subsection D., of this Policy is hereby deleted in its entirety and replaced with the following:
  - **D.** Upon the discovery of a "pollution condition", the "insured" shall make every attempt to mitigate any loss and comply with applicable "environmental laws". The Insurer shall have the right, but not the duty, to mitigate such "pollution conditions" if, in the sole judgment of the Insurer, the "insured" fails to take reasonable steps to do so. In that event, any "remediation costs" incurred by the Insurer shall be deemed incurred by the "insured", and shall be subject to the "deductible" and Limits of Liability identified in the Declarations.
- VI. Section IX., GENERAL CONDITIONS, Subsections D., Bankruptcy, of this Policy is hereby deleted in its entirety and replaced with the following:

### D. Bankruptcy

The insolvency or bankruptcy of any "insured" or any "insured's" estate shall not relieve the Insurer of its obligations under this Policy. However, any such insolvency or bankruptcy of the "insured" or the "insured's" estate shall not relieve the "insured" of its "deductible" obligations under this Policy. This insurance shall not replace any other insurance to which this Policy is excess, nor shall this Policy drop down to be primary, in the event of the insolvency or bankruptcy of any underlying insurer.

All other terms and conditions of this Policy remain unchanged.

JOHN J. LUPICA, President

Authorized Representative

### PROPERTY DAMAGE AMENDATORY (STIGMA) ENDORSEMENT

| Named Insured CCL Industries Corporation                               |                                         | Endorsement Number 21 |                                          |
|------------------------------------------------------------------------|-----------------------------------------|-----------------------|------------------------------------------|
| Policy Symbol PPL                                                      | , , , , , , , , , , , , , , , , , , , , |                       | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                         | 1                     |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section V., DEFINITIONS, Subsection X., of this Policy is hereby deleted in its entirety and replaced with the following following:

### X. "Property damage" means:

- 1. Physical injury to, or destruction of, tangible property of a third-party, including all resulting loss of use of that property;
- 2. Loss of use of tangible property of a third-party, that is not physically injured or destroyed;
- 3. Diminished value of tangible property of a third-party, including any diminution due to alleged stigma associated with a covered "pollution condition"; and,
- 4. "Natural resource damages".

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

JOHN J. LUPICA, President

### RESPONSIBLE PERSON AMENDATORY ENDORSEMENT

| Named Insured CCL Industries Corporation                               |  | Endorsement Number 22 |                                          |
|------------------------------------------------------------------------|--|-----------------------|------------------------------------------|
| Policy Symbol PPL                                                      |  |                       | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |  |                       |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **V.**, **DEFINITIONS**, Subsection **Z.**, of this Policy is hereby deleted in its entirety and replaced with the following:

**Z.** "Responsible person" means any facility manager responsible for environmental affairs, control, or compliance at any individual "covered location", the Vice Present of Risk and Environmental Management of the "first named insured", and any officer or director of, or partner in, a "named insured".

All other terms and conditions of this Policy remain unchanged.

JOHN J. LUPICA, President

Authorized Representative

### **INSURED VS. INSURED AMENDATORY ENDORSEMENT**

| Named Insured CCL Industries Corporation                               |                                | Endorsement Number 23                  |                                          |
|------------------------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                                                      | Policy Number<br>G24876871 004 | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                | 1                                      |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

I. Section VI., EXCLUSIONS, SubsectionI., Insured vs. Insured, of this Policy is deleted in its entirety.

All other terms and conditions of this Policy remain unchanged.

# SCHEDULE OF COVERED LOCATIONS (INADVERTENTLY OMITTED LOCATIONS - NEW CONDITIONS ONLY) ENDORSEMENT

| Named Insured CCL Industries Corporation                               |  |  | Endorsement Number 24                    |
|------------------------------------------------------------------------|--|--|------------------------------------------|
| Policy Symbol PPL                                                      |  |  | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |  |  |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

- **I.** Section **V., DEFINITIONS**, Subsection **F.**, of this Policy is hereby deleted in its entirety and replaced with the following:
  - F. "Covered location" means:
    - 1. Any location specifically identified in Item 8. of the Declarations to this Policy;
    - **2.** Any location that meets the prerequisites to coverage identified in Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any; and
    - **3.** Any other location specifically scheduled as a "covered location" by endorsement attached to this Policy, if any.
    - **4.** Any location that was inadvertently omitted from the Statement of Values titled "EIL Schedule of Locations Current & Divested 11-28-14.xls" and was owned, operated, managed or leased by the "first named insured" or any "named insured" upon the inception date identified in Item **2.** of the Declarations to this Policy; and
- I. Solely with respect to "pollution conditions" on, at, under or migrating from an inadvertently omitted location subject to coverage pursuant to Paragraph I., Subparagraph F., Items 2. or 4., above, the "insured" and the Insurer hereby agree that no coverage shall be afforded pursuant to this Policy for "pollution conditions" on, at, under, or migrating from such "covered location", which first commenced, in whole or in part, prior to the inception date identified in Item 2. of the Declarations to this Policy.

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

JOHN J. LUPICA, President

### POLLUTION CONDITION AMENDATORY (EMF) ENDORSEMENT

| Named Insured CCL Industries Corporation                               |                                | Endorsement Number 25                  |                                          |
|------------------------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol                                                          | Policy Number<br>G24876871 004 | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

Section **V., DEFINITIONS**, Subsection **W.**, of this Policy is hereby deleted in its entirety and replaced with the following:

### W. "Pollution condition" means:

- 1. The presence of "fungi" or legionella pneumophila;
- 2. "Illicit abandonment"; or
- 3. the discharge, dispersal, release, escape, migration or seepage of any solid, liquid, gaseous or thermal irritant, contaminant, or pollutant, including smoke, soot, vapors, fumes, acids, alkalis, chemicals, hazardous substances, hazardous materials, electromagnetic fields, or waste materials, on, in, into, or upon land and structures thereupon, the atmosphere, surface water, or groundwater.

For the purpose of this definition, waste materials includes, but is not limited to "low-level radioactive waste", "mixed waste" and medical, infectious and pathological waste.

All other terms and conditions of this Policy remain unchanged.

Authorized Representative

### SCHEDULE OF ADDITIONAL INSUREDS (VICARIOUS ONLY) ENDORSEMENT

| Named Insured CCL Industries Corporation                               |                                | Endorsement Number 26                  |                                          |
|------------------------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                                                      | Policy Number<br>G24876871 004 | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The "insured" and the Insurer hereby agree to the following changes to this Policy:

- I. The persons or entities identified in the Schedule of Additional Insureds, below, are "additional insureds" pursuant to this Policy, but solely with respect to their vicarious liability for any "named insured's" or "foreign subsidiary's" direct liability: 1) arising out of "pollution conditions" on, at under or migrating from a "covered location"; 2) resulting from "transportation" or 3) resulting from "covered operations", and solely to the extent that such person or entity is domiciled or its principle place of business is located in the United States of America or other jurisdiction where the Insurer is either licensed or legally permitted to provide insurance without a license.
- II. In the event that any person or entity inadvertently identified in the Schedule of Additional Insureds, below, is domiciled or its principle place of business is located in a jurisdiction where the Insurer is not licensed and may not provide insurance without a license, such person or entity shall not be an "additional insured" pursuant to this Policy. Instead, the Insurer agrees to indemnify the relevant "named insured" for its ownership interest in, or amounts that the relevant "named insured" represents that it has a contractual or other legal obligation to: 1) indemnify such person or entity for which they or it, respectively, have an underlying legal obligation to pay for "bodily injury", "property damage" or "remediation costs", including any associated "legal defense expense", arising out of a "pollution condition" on, at, under or migrating from a "covered location"; or 2) secure insurance coverage for such person or entity for "bodily injury", "property damage" or "remediation costs", including any associated "legal defense expense", arising out of a "pollution condition" on, at, under or migrating from a "covered location", consistent with the indemnity coverage afforded to relevant "named insureds" with respect to "foreign subsidiaries" pursuant to Section I., INSURING AGREEMENTS, Subsection D., FOREIGN POLLUTION CONDITIONS COVERAGE, of this Policy.

### **Schedule of Additional Insureds**

 Any lenders that a "named insured" is obligated or required to name as an "insured" under this Policy where such obligation or requirement is in a written contract executed prior any "claim".

All other terms and conditions of this Policy remain unchanged.

### TRADE OR ECONOMIC SANCTIONS ENDORSEMENT

| Named Insured                         |                                        |               | Endorsement Number            |
|---------------------------------------|----------------------------------------|---------------|-------------------------------|
| CCL Industries Corporation            |                                        |               | 27                            |
|                                       | <b>,</b>                               |               |                               |
| Policy Symbol                         | Policy Number                          | Policy Period | Effective Date of Endorsement |
| PPL                                   | G24876871 004 03/31/2015 to 03/31/2018 |               | 03/31/2015                    |
| Issued By (Name of Insurance Company) |                                        |               |                               |
| Illinois Union Insurance Company      |                                        |               |                               |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This insurance does not apply to the extent that trade or economic sanctions or other laws or regulations prohibit us from providing insurance, including, but not limited to, the payment of claims. All other terms and conditions of the policy remain unchanged.

### SERVICE OF SUIT ENDORSEMENT

| Named Insured CCL Industries Corporation                               |  | Endorsement Number 28 |                                          |
|------------------------------------------------------------------------|--|-----------------------|------------------------------------------|
| Policy Symbol PPL                                                      |  |                       | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |  |                       | ı                                        |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Information about service of suits upon the company is given below. Service of process of suits against the company may be made upon the following person, or another person the company may designate:

Saverio Rocca, Assistant General Counsel ACE USA Companies 436 Walnut Street Philadelphia, PA 19106-3703

The person named above is authorized and directed to accept service of process on the company's behalf in any action, suit or proceeding instituted against the company. If the insured requests, the company will give the insured a written promise that a general appearance will be entered on the company's behalf if a suit is brought.

If the insured requests, the company will submit to the jurisdiction of any court of competent jurisdiction. The company will accept the final decision of that court or any Appellate Court in the event of an appeal.

The law of some jurisdictions of the United States of America require that the Superintendent, Commissioner or Director of Insurance (or their successor in office) be designated as the company's agent for service of process. In these jurisdictions, the company designates the Director of Insurance as the company's true and lawful attorney upon whom service of process on the company's behalf may be made. The company also authorizes the Director of Insurance to mail process received on the company's behalf to the company person named above.

If the insured is a resident of Canada, the insured may also serve suit upon the company by serving the government official designated by the law of the insured's province.

NOTHING HEREIN CONTAINED SHALL BE HELD TO VARY, ALTER, WAIVE OR EXTEND ANY OF THE TERMS, CONDITIONS, OR LIMITATIONS OF THE POLICY TO WHICH THIS ENDORSEMENT IS ATTACHED OTHER THAN AS ABOVE STATED.

### **SIGNATURES**

| Named Insured CCL Industries Corporation                               |                                | Endorsement Number 29                  |                                          |
|------------------------------------------------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| Policy Symbol PPL                                                      | Policy Number<br>G24876871 004 | Policy Period 03/31/2015 to 03/31/2018 | Effective Date of Endorsement 03/31/2015 |
| Issued By (Name of Insurance Company) Illinois Union Insurance Company |                                |                                        |                                          |

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THE ONLY SIGNATURES APPLICABLE TO THIS POLICY ARE THOSE REPRESENTING THE COMPANY NAMED ON THE FIRST PAGE OF THE DECLARATIONS.

By signing and delivering the policy to you, we state that it is a valid contract.

**ILLINOIS UNION INSURANCE COMPANY** (A stock company) 525 W. Monroe Street, Suite 400, Chicago, Illinois 60661

WESTCHESTER SURPLUS LINES INSURANCE COMPANY (A stock company)
Royal Centre Two, 11575 Great Oaks Way, Suite 200, Alpharetta, GA 30022

WLCA & COLL
REBECCA L. COLLINS, Secretary

JOHN J. LUPICA, President

Authorized Representative

LD-5S23j (03/14) Page 1 of 1



| Illinois Union Insurance Company |
|----------------------------------|
| Insurance Company                |
| CCL Industries Corporation       |
| Policyholder                     |
| PPL G24876871 004                |
| Policy Number                    |
| MARSH USA INC                    |
| Broker/Producer                  |

# POLICYHOLDER DISCLOSURE NOTICE OF TERRORISM INSURANCE COVERAGE

You were notified that under the Terrorism Risk Insurance Act, as amended, you have a right to purchase insurance coverage for losses resulting from acts of terrorism. As defined in Section 102(1) of the Act: The term "act of terrorism" means any act or acts that are certified by the Secretary of the Treasury---in consultation with the Secretary of Homeland Security, and the Attorney General of the United States---to be an act of terrorism; to be a violent act or an act that is dangerous to human life, property, or infrastructure; to have resulted in damage within the United States, or outside the United States in the case of certain air carriers or vessels or the premises of a United States mission; and to have been committed by an individual or individuals as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.

YOU SHOULD KNOW THAT WHERE COVERAGE IS PROVIDED BY YOUR POLICY FOR LOSSES RESULTING FROM CERTIFIED ACTS OF TERRORISM, SUCH LOSSES MAY BE PARTIALLY REIMBURSED BY THE UNITED STATES GOVERNMENT UNDER A FORMULA ESTABLISHED BY FEDERAL LAW. HOWEVER, YOUR POLICY MAY CONTAIN OTHER EXCLUSIONS WHICH MIGHT AFFECT YOUR COVERAGE, SUCH AS AN EXCLUSION FOR NUCLEAR EVENTS. UNDER THE FORMULA, THE UNITED STATES GOVERNMENT GENERALLY REIMBURSES 85% FOR YEAR 2015, 84% BEGINNING ON JANUARY 1, 2016; 83% BEGINNING ON JANUARY 1, 2017, 82% BEGINNING ON JANUARY 1, 2018; 81% BEGINNING ON JANUARY 1, 2019 AND 80% BEGINNING ON JANUARY 1, 2020, OF COVERED TERRORISM LOSSES EXCEEDING THE STATUTORILY ESTABLISHED DEDUCTIBLE PAID BY THE INSURANCE COMPANY PROVIDING THE COVERAGE. THE PREMIUM THAT WOULD BE CHARGED FOR THIS COVERAGE IS PROVIDED BELOW AND DOES NOT INCLUDE ANY CHARGES FOR THE PORTION OF LOSS THAT MAY BE COVERED BY THE FEDERAL GOVERNMENT UNDER THE ACT.

YOU SHOULD ALSO KNOW THAT THE TERRORISM RISK INSURANCE ACT, AS AMENDED, CONTAINS A \$100 BILLION CAP THAT LIMITS U.S. GOVERNMENT REIMBURSEMENT AS WELL AS INSURERS' LIABILITY FOR LOSSES RESULTING FROM CERTIFIED ACTS OF TERRORISM WHEN THE AMOUNT OF SUCH LOSSES IN ANY ONE CALENDAR YEAR EXCEEDS \$100 BILLION. IF THE AGGREGATE INSURED LOSSES FOR ALL INSURERS EXCEED \$100 BILLION, YOUR COVERAGE MAY BE REDUCED.

You elected **NOT** to purchase terrorism coverage under the Act at the price indicated. ACCORDINGLY, WE WILL **NOT** PROVIDE THIS COVERAGE AND YOU DO NOT OWE THE ADDITIONAL PREMIUM FOR THAT COVERAGE INDICATED BELOW.

Terrorism coverage described by the Act under your policy was made available to you for additional premium in the amount of \$27,500, however you elected to decline such coverage.

TRIA24 (01/15) Page 1 of 1



| Se. | ACE USA                                                                        |
|-----|--------------------------------------------------------------------------------|
| 56  | X Illinois Union Insurance Company Westchester Surplus Lines Insurance Company |
|     |                                                                                |

Attached To Policy No.: PPL G24876871 004 Insured: **CCL Industries Corporation** 

Effective Date: 03/31/2015

### PENNSYLVANIA SURPLUS LINES NOTIFICATION

THE INSURER WHICH HAS ISSUED THIS INSURANCE IS NOT LICENSED BY THE PENNSYLVANIA INSURANCE DEPARTMENT AND IS SUBJECT TO LIMITED REGULATION. THIS INSURANCE IS NOT COVERED BY THE PENNSYLVANIA PROPERTY AND CASUALTY INSURANCE GUARANTY ASSOCIATION.

NOTHING HEREIN CONTAINED SHALL BE HELD TO VARY, ALTER, WAIVE OR EXTEND ANY OF THE TERMS, CONDITIONS, OR LIMITATIONS OF THE POLICY TO WHICH THIS NOTICE IS ATTACHED OTHER THAN AS STATED ABOVE.

SL-17902 (Ed. 04/10) Page 1 of 1



# ACE Producer Compensation Practices & Policies

ACE believes that policyholders should have access to information about ACE's practices and policies related to the payment of compensation to brokers and independent agents. You can obtain that information by accessing our website at <a href="http://www.aceproducercompensation.com">http://www.aceproducercompensation.com</a> or by calling the following toll-free telephone number: 1-866-512-2862.

ALL-20887 (10/06) Page 1 of 1

# U.S. TREASURY DEPARTMENT'S OFFICE OF FOREIGN ASSETS CONTROL ("OFAC") ADVISORY NOTICE TO POLICYHOLDERS

No coverage is provided by this Policyholder Notice nor can it be construed to replace any provisions of your policy. You should read your policy and review your Declarations page for complete information on the coverages you are provided.

This Notice provides information concerning possible impact on your insurance coverage due to directives issued by OFAC. Please read this Notice carefully.

The Office of Foreign Assets Control (OFAC) administers and enforces sanctions policy, based on Presidential declarations of "national emergency". OFAC has identified and listed numerous:

- Foreign agents;
- Front organizations;
- Terrorists:
- Terrorist organizations; and
- Narcotics traffickers;

as "Specially Designated Nationals and Blocked Persons". This list can be located on the United States Treasury's web site – http://www.treas.gov/ofac.

In accordance with OFAC regulations, if it is determined that you or any other insured, or any person or entity claiming the benefits of this insurance has violated U.S. sanctions law or is a Specially Designated National and Blocked Person, as identified by OFAC, this insurance will be considered a blocked or frozen contract and all provisions of this insurance are immediately subject to OFAC. When an insurance policy is considered to be such a blocked or frozen contract, no payments nor premium refunds may be made without authorization from OFAC. Other limitations on the premiums and payments also apply.



(claims-made coverage)

### **Declarations**

This Policy is issued by the stock insurance company identified above (herein called the Insurer).

THIS POLICY PROVIDES LIABILITY COVERAGE ON A CLAIMS-MADE AND REPORTED BASIS, WHICH COVERS ONLY CLAIMS FIRST MADE AGAINST THE INSURED AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD. THIS POLICY PROVIDES COVERAGE FOR REMEDIATION COSTS ON A DISCOVERED AND REPORTED BASIS, WHICH COVERS ONLY POLLUTION CONDITIONS FIRST DISCOVERED AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD. PLEASE READ THIS POLICY CAREFULLY. SOME OF THE PROVISIONS CONTAINED IN THIS POLICY RESTRICT COVERAGE, SPECIFY WHAT IS AND IS NOT COVERED AND DESIGNATE YOUR RIGHTS AND DUTIES. LEGAL DEFENCE EXPENSES ARE SUBJECT TO AND SHALL ERODE THE LIMITS OF LIABILITY AND ANY APPLICABLE SELF-INSURED RETENTION.

THE DECLARATIONS, TOGETHER WITH THE COMPLETED AND SIGNED APPLICATION, THIS POLICY, AND ANY ENDORSEMENTS OR SCHEDULES ATTACHED HERETO, CONSTITUTE THE INSURANCE POLICY.

| Policy No.: EIL333621 |                      | Renewal of: EIL333621                                             |
|-----------------------|----------------------|-------------------------------------------------------------------|
| Item 1.               | First Named Insured: | CCL Industries Inc.                                               |
|                       | Address:             | 105 Gordon Baker Road<br>Suite 500<br>Willowdale, Ontario M2H 3P8 |

| Item 2.                                                     | COVERAGE A. – New Pollution Conditions Coverage                                                     |                                              |  |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------|--|
| a. Policy Period local time of the address shown in Item. 1 | Policy Inception Date: March 31, 2015 12:01 A.M.  Policy Expiration Date: March 31, 2018 12:01 A.M. |                                              |  |
| b. Limits of Liability  per  pollution condition            | \$50,000,000                                                                                        |                                              |  |
| c. Limits of Liability aggregate all pollution conditions   | \$50,000,000                                                                                        |                                              |  |
| d. Self-Insured Retention per pollution condition           | \$1,000,000                                                                                         |                                              |  |
|                                                             | Coverage A. not provided under this P                                                               | olicy (all fields in Item 2. are left blank) |  |

| Item 3.                                                                           | COVERAGE B. – Pre-Existing Pollution Conditions Coverage                                            |          |   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|---|
| a. Policy Period local time of the address shown in Item. 1                       | Policy Inception Date: March 31, 2015 12:01 A.M.  Policy Expiration Date: March 31, 2018 12:01 A.M. |          |   |
| b. Limits of Liability                                                            |                                                                                                     | <u> </u> |   |
| per<br>□pollution condition□                                                      | \$50,000,000                                                                                        |          |   |
| c. Limits of Liability                                                            |                                                                                                     |          |   |
| aggregate all □pollution conditions□                                              | \$50,000,000                                                                                        |          |   |
| d. Self-Insured Retention                                                         |                                                                                                     |          |   |
| per<br>□pollution condition□                                                      | \$1,000,000                                                                                         |          |   |
| Coverage B. not provided under this Policy (all fields in Item 3. are left blank) |                                                                                                     |          | _ |



(claims-made coverage)

### **Declarations**

| Item 4.                                    | COVERAGE C. – Fore                            | eign Jurisdiction Po     | Ilution Cond     | ditions Coverage                              |
|--------------------------------------------|-----------------------------------------------|--------------------------|------------------|-----------------------------------------------|
| a. Policy Period                           |                                               |                          |                  | ration Date:                                  |
| local time of the address shown in Item. 1 | March 31, 2015 12:01 A.M. March 3             |                          | March 31,        | , 2018 12:01 A.M.                             |
| b. Limits of Liability                     |                                               |                          |                  |                                               |
| per  pollution condition                   | \$50,000,000                                  |                          |                  |                                               |
| c. Limits of Liability                     |                                               |                          |                  |                                               |
| aggregate<br>all ⊡pollution conditions□    | \$50,000,000                                  |                          |                  |                                               |
| d. Self-Insured Retention                  | ¢4 000 000                                    |                          |                  |                                               |
| pollution condition                        | \$1,000,000                                   |                          |                  |                                               |
|                                            | Coverage <b>C.</b> not provide                | d under this Policy (all | fields in Item 4 | 4. are left blank)                            |
|                                            |                                               |                          |                  |                                               |
| Item 5.                                    | Limits of Liability:                          | \$50,000,000             |                  |                                               |
|                                            | Total Policy & Program                        |                          |                  |                                               |
|                                            | <u>Aggregate</u>                              |                          |                  |                                               |
|                                            |                                               |                          |                  |                                               |
| Item 6.                                    | Premium:                                      |                          |                  |                                               |
| item o.                                    | 1 Tollinaili.                                 |                          |                  |                                               |
|                                            |                                               | (The premium shall       | be 25 mini       | imum-earned as of the first day of the Policy |
|                                            |                                               | Period indicated in It   | ,                | ove)                                          |
| *All dollar amo                            | unts identified above a                       | re in <i>Canadian do</i> | llars.           |                                               |
| Item 7.                                    | Producer:                                     | Marsh Canada             |                  |                                               |
|                                            | Name Address 120 Bremner Blvd.                |                          |                  |                                               |
|                                            |                                               | Toronto, Ontario         | )                |                                               |
|                                            |                                               | IVIOU UAU                |                  |                                               |
|                                            |                                               |                          |                  |                                               |
| Item 8.                                    | - Neder of Olelen                             | Dellestien Oen Ittien    |                  | L. All other Neders                           |
|                                            | a. Notice of Claim o                          | or Pollution Condition   |                  | b. All other Notices                          |
|                                            | ACE INA Insurance                             |                          |                  | ACE INA Insurance                             |
| Notices                                    | 25 York Street, 14th Floor                    |                          |                  | 25 York Street, 14th Floor                    |
| Toronto, Ontario, M5J 2V5                  |                                               | 5                        |                  | Toronto, Ontario, M5J 2V5<br>Canada           |
|                                            | Attn: Claims Department                       |                          |                  | Attention: Environmental Manager              |
|                                            | Facsimile: (416) 368-0641                     |                          |                  |                                               |
|                                            | First Notice Email: canadaclaims acegroup.com |                          |                  |                                               |
|                                            |                                               |                          |                  |                                               |
|                                            | 24 Hour Emergency Response Hotline            |                          |                  | 1-888-310-9553                                |
|                                            | 2. Hour Emergenc                              | .,                       |                  | 1-000-310-3333                                |
|                                            |                                               |                          |                  |                                               |
| Item 9.                                    |                                               |                          |                  |                                               |
| itolii J.                                  | Covered                                       |                          |                  |                                               |
|                                            | Locations:                                    |                          |                  |                                               |
|                                            | ⊠if cl                                        | hecked here, schedule    | of Covered Lo    | ocations is designated via endorsement.       |



(claims-made coverage)

### **Declarations**

Policy Form No. PFC-31903 (11 10) Global Premises Pollution Liability Insurance Policy

**Endorsements and Notices Attached at Policy Issuance:** 



(claims-made coverage)

### **Declarations**

| Endorsement | Form     | Form Name:                                                                                      |
|-------------|----------|-------------------------------------------------------------------------------------------------|
| Number:     | Number:  |                                                                                                 |
| 1.          | PFC31914 | Schedule of Additional Insureds (Broad) Endorsement                                             |
| 2.          | PFC31968 | Schedule of Covered Locations Coverage A and or B with Retroactive Date Endorsement             |
| 3.          | PFC32060 | Non – Owned Disposal Sites Coverage Blanket - New Waste and Historical Waste Endorsement        |
| 4.          | PFC32125 | Transportation Coverage Endorsement                                                             |
| 5.          | PFC32126 | Schedule of Underground Storage Tanks Endorsement                                               |
| 6.          | PFC31937 | Business Interruption and Delay Expense Endorsement                                             |
| 7.          | PFC31933 | Automatic Acquisition and Due Diligence Endorsement                                             |
| 8.          | PFC32012 | Fungi and Legionella Coverage Sublimit Endorsement                                              |
| 9.          | PFC32056 | Schedule of Named Insured Broad Endorsement                                                     |
| 10.         | PFC32070 | Notice of Cancellation 120 Days Endorsement                                                     |
| 11.         | PFC32077 | Other Insurance Primary Endorsement                                                             |
| 12.         | PFC32020 | Global Program Difference in condition / Difference in Limit Endorsement                        |
| 13.         | PFC32021 | Global Premises Pollution Liability Program Schedule Endorsement                                |
| 14.         | PFC32010 | Schedule of Foreign Subsidiaries Endorsement                                                    |
| 15.         | PFC32086 | Premium Earn Out Multi Year Endorsement                                                         |
| 16.         | PFC32088 | First Party Property Diminution Coverage Endorsement                                            |
| 17.         | PFC32026 | Jurisdiction And Venue/Choice Of Law Amendatory Deletion<br>Endorsement                         |
| 18.         | PFC32134 | Waiver of Subrogation Endorsement                                                               |
| 19.         | PFC31912 | Schedule Of Additional Insureds Broad With By Contract Endorsement                              |
| 20.         | PFC31911 | Additional Insured Schedule Mortgagee Endorsement                                               |
| 21.         | PFC32007 | Basic Extended Reporting Period 90 Days Endorsement                                             |
| 22.         | MANU     | Schedule of Covered Locations Inadvertently omitted Locations – New Conditions Only Endorsement |
| 23.         | MANU     | Pollution Condition Amendatory Inclusion of Electromagnetic Fields Endorsement                  |
| 24.         | MANU     | Responsible Person Amendatory Endorsement                                                       |



(claims-made coverage)

### **Declarations**

| 25. | MANU      | SIR Payment Recognition Endorsement                                                                              |
|-----|-----------|------------------------------------------------------------------------------------------------------------------|
| 26. | MANU      | Property Damage Amendatory (Stigma) Endorsement                                                                  |
| 27. | MANU      | Coverage Territory Amendatory Endorsement                                                                        |
| 28. | MANU      | Asbestos, Lead-Based Paint and Punitive Damages Sublimit-<br>Reinsurance Endorsement                             |
| 29. | PFC32089  | Prior Claims Exclusionary Endorsement                                                                            |
| 30. | MANU      | Insured vs. Insured Amendatory Endorsement                                                                       |
| 31. | MANU      | Schedule of Known Conditions Documents Endorsement                                                               |
| 32. | PFC31961  | Coverage Limitation and Reopener Endorsement                                                                     |
| 33. | PFC32045  | Location Specific Pre-Existing Pollutions Third Party Claims Coverage Divested Properties Full Retro Endorsement |
| 34. | ALL-21101 | Trade or Economic Sanctions Endorsement                                                                          |
| 35. | PFC39723  | Signature Endorsement                                                                                            |

IN WITNESS WHEREOF, the Insurer has caused this Policy to be countersigned by a duly authorized representative of the Insurer.

| DATE: | 05/01/2015 | A. Holley.                |
|-------|------------|---------------------------|
|       | MO DAY YR  | AUTHORIZED REPRESENTATIVE |



# Global Premises Pollution Liability Insurance Policy (claims-made coverage)

This Policy is issued by the stock insurance company identified above (hereinafter the Insurer).

THIS POLICY PROVIDES LIABILITY COVERAGE ON A CLAIMS-MADE AND REPORTED BASIS, WHICH COVERS ONLY CLAIMS FIRST MADE AGAINST THE INSURED AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD. THIS POLICY PROVIDES COVERAGE FOR REMEDIATION COSTS ON A DISCOVERED AND REPORTED BASIS, WHICH COVERS ONLY POLLUTION CONDITIONS FIRST DISCOVERED AND REPORTED TO THE INSURER, IN WRITING, DURING THE POLICY PERIOD. PLEASE READ THIS POLICY CAREFULLY. SOME OF THE PROVISIONS CONTAINED IN THIS POLICY RESTRICT COVERAGE, SPECIFY WHAT IS AND IS NOT COVERED AND DESIGNATE YOUR RIGHTS AND DUTIES. LEGAL DEFENCE EXPENSES ARE SUBJECT TO AND SHALL ERODE THE LIMITS OF LIABILITY AND ANY APPLICABLE SELF-INSURED RETENTION.

Throughout this Policy the words *the Insurer* shall refer to the company providing this insurance. Other words and phrases that appear in quotation marks have special meanings and are defined in Section **V., DEFINITIONS**.

In consideration of the payment of the premium and in reliance upon all statements made in the Application to this Policy, including the information furnished in connection therewith, and subject to all terms, definitions, conditions, exclusions and limitations of this Policy, the Insurer agrees to provide insurance coverage to the finsured as described herein.

#### I. INSURING AGREEMENTS

Solely to the extent that the Coverages, below, are identified on the Declarations to this Policy as being underwritten by the Insurer, the Insurer agrees to pay on behalf of the insured or in such jurisdictions where the Insurer may be prevented by law from paying on behalf of the insured the Insurer agrees to indemnify the relevant insured pursuant to Coverage **C.**, below, for:

### A. NEW POLLUTION CONDITIONS (Coverage A.)

Claims remediation costs and associated legal defence expenses in excess of the self-insured retention arising out of a pollution condition on, at, under, or migrating from a covered location provided the claim is first made, or the insured first discovers such pollution condition during the policy period. Any such discovery of a pollution condition must be reported to the Insurer, in writing, during the policy period. Any such claim must be reported to the Insurer, in writing, during the policy period.

It is a condition precedent to coverage afforded pursuant to this Coverage **A.** that all pollution conditions first commence, in their entirety, during the policy period

### **B.** PRE-EXISTING POLLUTION CONDITIONS (Coverage **B.**)

Claims remediation costs and associated legal defence expenses in excess of the self-insured retention arising out of a pollution condition on, at, under, or migrating from a covered location provided the claim is first made, or the insured first discovers such pollution condition during the policy period Any such discovery of a pollution condition must be reported to the Insurer, in writing, during the policy period Any such claim must be reported to the Insurer, in writing, during the policy period period and associated legal defence expenses in excess of the self-insured retention arising out of a pollution condition and associated legal defence expenses in excess of the self-insured retention.

It is a condition precedent to coverage afforded pursuant to this Coverage **B.** that all pollution conditions first commenced, in whole or part, prior to the policy period

### **C.** FOREIGN POLLUTION CONDITIONS (Coverage **C.**)

- 1. □Foreign loss□ in excess of the □self-insured retention□ which the □nsured□becomes legally obligated to pay because of a □foreign claim□arising out of , or its discovery of, a □pollution condition□ and
- 2. □Foreign subsidiary loss□, in excess of the □self-insured retention□, which the relevant □named insured□ becomes legally obligated to pay because of a □foreign subsidiary claim□arising out of a □pollution condition□



# Global Premises Pollution Liability Insurance Policy (claims-made coverage)

Subject to the Limits of Liability identified in the Declarations to this Policy, as modified by any applicable endorsement attached hereto, if any, the maximum amount that the Insurer shall pay for any Iforeign subsidiary loss pursuant to Paragraph 2., immediately above, shall be the larger of either:

- 1. The relevant mamed insured somership loss or
- 2. Any portion of the foreign subsidiary loss provided that the relevant mamed insured represents that it has a contractual or other legal obligation to:
  - a. Reimburse its foreign subsidiary for that portion of such foreign subsidiary loss □ or
  - b. Secure insurance for its foreign subsidiary of that portion of such foreign subsidiary loss □

and that such contractual or other legal obligation existed prior to, and at the time of, the mamed insured solicovery of the pollution condition or its discovery of the underlying matter substantiating the foreign subsidiary claim being made with respect to the pollution condition whichever occurs first.

The coverage afforded pursuant to this Coverage C. only applies to the extent that:

- 1. Any such pollution condition and any associated foreign loss pownership loss or foreign subsidiary loss would have otherwise been covered pursuant to either Coverage A. or B., above, or any Supplemental Coverage added to this Policy by endorsement, if incurred by an insured pursuant to this Policy with respect to a pollution condition located in a jurisdiction where the Insurer was licensed or otherwise permitted to insure such loss exposure; and
- 2. With respect to coverage afforded pursuant to the circumstances identified in Paragraph 1., above, only, any such foreign claim is first made against the insured and reported by the insured to the Insurer, in writing, during the policy period or any applicable extended reporting period and
- 3. With respect to coverage afforded pursuant to the circumstances identified in Paragraph 2., above, only:
  - a. Upon receipt of a Iforeign subsidiary claim to which this insurance may apply, in whole or in part, the relevant mamed insured exercises its right to assume control of the investigation, adjustment, defence and settlement of any alleged Iforeign subsidiary loss pursuant to Section III., DEFENCE AND SETTLEMENT, Subsection F., and assign those rights to the Insurer; and
  - b. Any such foreign subsidiary claim is first made against the relevant finamed insured and reported by the finamed insured to the Insurer, during the folicy period or any applicable fextended reporting period period to the Insurer, during the folicy period to the Insurer, during the folicy period to the Insurer, during the folicy period to the Insurer, during the folicy period to the Insurer, during the folicy period to the Insurer, during the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the folicy period to the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insurer than the Insure

The insurance provided pursuant to this Coverage **C.** only applies when the pollution condition takes place in a jurisdiction in which the Insurer is not licensed and where the Insurer is not permitted to provide insurance without a license.

### II. LIMITS OF LIABILITY AND SELF-INSURED RETENTION

- A. It is expressly agreed that the Insurers obligation to pay for any covered claims remediation costs foreign loss ownership loss foreign subsidiary loss or flegal defence expense pursuant to this Policy shall attach to the Insurer only after the first named insured has paid, or has provided evidence to the Insurer that another mamed insured or foreign subsidiary has paid, the full amount of the self-insured retention with respect to any covered pollution condition. Under no circumstances shall the Insurer be liable to pay any amount within the self-insured retention. In the event that the first named insured cannot provide satisfactory evidence that a mamed insured or foreign subsidiary has paid the full amount of the self-insured retention with respect to any covered pollution condition, the first named insured shall remain responsible to pay the self-insured retention before the Insurers payment obligation pursuant to this Policy shall attach with respect to coverage sought by any finsured.
- **B.** One self-insured retention shall apply to all claims remediation costs foreign loss ownership loss foreign subsidiary loss and degal defence expense arising out of the same, continuous, repeated, or related pollution condition



- C. With respect to Coverage A., and subject to Subsections D., I. and J., below, the most the Insurer shall pay for all claims □ remediation costs □ and associated degal defence expenses □ arising out of the same, continuous, repeated, or related pollution condition is the Limit of Liability identified in Item 2.b. of the Declarations.
- D. With respect to Coverage A., and subject to Subsections I. and J., below, the Limit of Liability identified in Item 2.c. of the Declarations shall be the maximum liability of the Insurer pursuant to this Policy with respect to all claims. ☐ remediation costs ☐ and associated ☐ degal defence expense ☐ for all ☐ pollution conditions ☐
- E. With respect to Coverage B., and subject to Subsections F., I. and J., below, the most the Insurer shall pay for all claims □ remediation costs □ and degal defence expense □ arising out of the same, continuous, repeated, or related □ pollution condition □ is the Limit of Liability identified in Item 3.b. of the Declarations to this Policy.
- F. With respect to Coverage B., and subject to Subsection I. and J., below, the Limit of Liability identified in Item 3.c. of the Declarations shall be the maximum liability of the Insurer pursuant to this Policy with respect to all claims. ☐ remediation costs ☐ and ☐ egal defence expenses ☐ for all ☐ pollution conditions ☐
- **G.** With respect to Coverage **C.**, and subject to Subsections **H.**, **I.** and **J.**, below, the most the Insurer shall reimburse the relevant named insured for all foreign loss not of the same, continuous, repeated, or related pollution conditions is the Limit of Liability identified in Item **4.b.** of the Declarations.
- H. With respect to Coverage C., and subject to Subsection I. and J., below, the Limit of Liability identified in Item 4.c. of the Declarations shall be the maximum reimbursement of the Insurer pursuant to this Policy with respect to all foreign loss pownership loss and foreign subsidiary loss for all pollution conditions.
- I. The Total Policy and Program Aggregate Limit of Liability identified in Item 5. of the Declarations shall be the maximum liability of the Insurer pursuant to this Policy with respect to all claims □ remediation costs □ foreign loss □ ownership loss □ foreign subsidiary loss □ and tegal defence expense of all pollution conditions □ covered pursuant to Coverages A., B. and C., or any Supplemental Coverages added by endorsement to this Policy, if any.
- J. If the Insurer or an affiliate has issued pollution liability coverage afforded on a discovered and reported basis or claims-made and reported basis consistent with Coverages A., B. or C., herein, in one or more policy periods, and a pollution condition is first discovered and reported to the Insurer, or a claim foreign claim or foreign subsidiary claim is first made and reported to the Insurer with respect to a pollution condition in accordance with the terms and conditions of this Policy, then:
  - 1. Any continuous, repeated, or related pollution condition that is subsequently reported to the Insurer during later policy periods shall be deemed to be one pollution condition discovered during this policy period and
  - **2.** All claims foreign claims and foreign subsidiary claims seeking bodily injury property damage or memediation costs arising out of:
    - a. That same, continuous, repeated, or related pollution condition that was discovered during this policy period or
    - b. That same, continuous, repeated, or related pollution condition that was the subject of a claim foreign claim or foreign subsidiary claim first made and reported during this policy period or any applicable extended reporting period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period period peri

shall be deemed to have been first made and reported during this policy period and no other policy shall respond.

#### III. DEFENCE AND SETTLEMENT

A. The Insurer shall have the right and, subject to the self-insured retention obligation and Subsections F. and G., below, the duty to defend the insured against a claim foreign claim or underlying matter substantiating a foreign subsidiary claim to which this insurance applies. The Insurer shall have no duty to defend the insured or indemnify the relevant mamed insured or insured for segal defence expenses consistent with Coverage C., herein, and Subsection F. and G., below, respectively, against any claim foreign claim or underlying matter



substantiating a foreign subsidiary claim to which this insurance does not apply. The Insurer duty to defend the finsured or indemnify the relevant mamed insured framed insured framed applicable), ends once the Limits of Liability are exhausted or are tendered into a court of applicable jurisdiction, or once the finsured refuses a settlement offer as provided in Subsection E., below.

- B. The Insurer shall have the right to select legal counsel to represent the finsured for the investigation, adjustment, and defence of any ⊡claims foreign claims or underlying matters substantiating any foreign subsidiary claims covered pursuant to this Policy. Selection of legal counsel by the Insurer shall not be done without the consent of the finsured such consent shall not be unreasonably withheld. ☐ Legal defence expenses incurred prior to the selection of legal counsel by the Insurer shall not be covered pursuant to this Policy, or credited against the self-insured retention ☐
  - In the event the finsured is entitled by law to select independent counsel to defend itself at the Insurer's expense, the attorney fees and all other litigation expenses the Insurer shall pay to that counsel are limited to the rates the Insurer actually pays to counsel that the Insurer normally retains in the ordinary course of business when defending claims or lawsuits of similar complexity in the jurisdiction where the claim arose or is being defended. In addition, the finsured and the Insurer agree that the Insurer may exercise the right to require that such counsel: 1) have certain minimum qualifications with respect to their competency, including experience in defending claims similar to those being asserted against the finsured 2) maintain suitable errors and omissions insurance coverage; 3) be located within a reasonable proximity to the jurisdiction of the claim and 4) agree in writing to respond in a timely manner to the Insurer requests for information regarding the claim. The finsured may at anytime, by its signed consent, freely and fully waive its right to select independent counsel.
- **C.** The <code>insured</code> shall have the right and the duty to retain a qualified environmental consultant to perform any investigation and or remediation of any <code>pollution</code> condition <code>covered</code> pursuant to this Policy. The <code>insured</code> must receive the written consent of the Insurer prior to the selection and retention of such consultant, except in the event of an <code>emergency</code> response <code>Any</code> costs incurred prior to such consent shall not be covered pursuant to this Policy, or credited against the <code>self-insured</code> retention <code>except</code> in the event of an <code>emergency</code> response <code></code>
- **D.** ☐ Legal defence expenses reduce the Limits of Liability identified in Items 2., 3., 4. and 5. of the Declarations to this Policy and shall be applied to the self-insured retention.
- E. The Insurer shall present all settlement offers to the <code>insured</code> If the Insurer recommends a settlement which is acceptable to a claimant, exceeds any applicable <code>self-insured</code> retention; is within the Limits of Liability, and does not impose any additional unreasonable burdens on the <code>insured</code> and the <code>insured</code> refuses to consent to such settlement offer, then the Insurers duty to defend, or indemnify the <code>insured</code> for <code>legal</code> defence expense; shall end. Thereafter, the <code>insured</code> shall defend such <code>claim</code> foreign claim; or underlying matter substantiating a <code>foreign</code> subsidiary claim; independently and at the <code>insured</code> own expense. The Insurers liability shall not exceed the amount for which the <code>claim</code> foreign claim; or underlying matter substantiating a <code>foreign</code> subsidiary claim; could have been settled if the Insurers recommendation had been accepted, exclusive of the <code>self-insured</code> retention.
- F. In jurisdictions where the Insurer is not licensed or otherwise permitted to insure a foreign subsidiary upon receipt of a foreign subsidiary claim the relevant mamed insured shall enter into a written agreement with the foreign subsidiary regarding the handling of any pollution condition or foreign subsidiary claim for which the relevant mamed insured may have a right to indemnity, in whole or in part, pursuant to Coverage C. of this Policy. Such agreement shall require, at a minimum, that:
  - The relevant □named insured □have the right to control the investigation, adjustment, defence and settlement of any alleged □foreign subsidiary loss □consistent with the Insurer □s rights in this Section III., Subsections B., C. and E., above; and
  - 2. The relevant mamed insured has subrogation rights consistent with the Insurer rights in Section IX., GENERAL CONDITIONS, Subsection E., Subrogation, herein.

Thereafter, the named insured shall immediately assign those rights to the Insurer.



G. In jurisdictions where the Insurer is not licensed, and may not provide insurance or conduct the business of insurance without a license, the Insurer shall have the right, <u>but not the duty</u>, to defend the <u>linsured</u> against any <u>liforeign claim</u> made in such jurisdiction. If the Insurer elects not to defend the <u>linsured</u> in such a scenario, the Insurer shall promptly reimburse the <u>linsured</u> for <u>liegal</u> defence expense that it incurs to defend itself for <u>liforeign claims</u> to which this insurance applies. Notwithstanding anything stated in this provision, the Insurer shall maintain all of its rights to control the investigation, adjustment, defence and settlement of any alleged <u>liforeign claim</u> consistent with Subsections B., C. and E., above.

#### IV. COVERAGE TERRITORY

The coverage afforded pursuant to this Policy shall apply to pollution conditions worldwide, except for any pollution conditions within:

- 1. The People Republic of China; and
- **2.** Any of the following former member states of the Union of Soviet Socialist Republics: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

Notwithstanding the foregoing, this Policy shall not afford coverage for any risk which would otherwise be in violation of the laws of Canada including, but not limited to, economic or trade sanction laws or export control laws administered by the government of Canada.

### V. DEFINITIONS

- A. "Additional insured" means any person or entity specifically endorsed onto this Policy as an additional insured if any. Such additional insured shall maintain only those rights that are specified by endorsement to this Policy.
- **B.** "Biodiversity damages" means injury to, damage sustained by, or the destruction or loss of, land, air, water, groundwater, drinking water, fish, wildlife, biota and their habitats.
- **C.** "Bodily injury" means physical injury, illness, disease, mental anguish, emotional distress, or shock, sustained by any person, including death resulting therefrom, and any prospective medical monitoring costs that are intended to confirm any such physical injury, illness or disease.
- D. "Claim" means the written assertion of a legal right received by the finsured from a third-party, including, but not limited to, a government action suits or other actions alleging responsibility or liability on the part of the finsured for bodily injury property damage, or remediation costs arising out of pollution conditions to which this insurance applies.
- **E.** "Contingent transportation" means the movement of the finsured waste or products by automobile, aircraft, watercraft, railcar or other conveyance beyond the boundaries of a covered location by a person or entity, other than an finsured or foreign subsidiary engaged in the business of transporting property for hire, until such time as the waste or product is unloaded from the automobile, aircraft, watercraft, railcar or other conveyance.

## F. "Covered location" means:

- 1. Any location specifically identified in Item 9. of the Declarations to this Policy;
- 2. Any location that meets the prerequisites to coverage identified in the Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any; and
- 3. Any other location specifically scheduled as a covered location by endorsement attached to this Policy, if any.
- **G.** "Emergency response" means actions taken and reasonable remediation costs incurred within seventy-two (72) hours following the discovery of a pollution condition by an rinsured or respond to an imminent and substantial threat to human health or the environment arising out of such pollution condition □



- H. "Environmental indemnity obligations" means an "insured's" or foreign subsidiary obligations to defend or indemnify a third-party with respect to a pollution condition to which this insurance otherwise applies, provided that such defence or indemnity obligation is explicitly included within a contract identified on the Schedule of Insured Contracts Endorsement attached to this Policy, if any.
- I. "Environmental law" means any international (including European Union), national, federal, state, provincial, commonwealth, municipal or other local law, statute, directive, ordinance, rule, guidance document, regulation, and all amendments thereto, including voluntary cleanup or risk-based corrective action guidance, governing the liability or responsibilities of the ⊡nsured or ☐foreign subsidiary with respect to a pollution condition.
- J. "Extended reporting period" means the additional period of time in which to report a ⊡claim ☐ foreign claim ☐ or ☐ foreign subsidiary claim ☐ first made against the ☐ insured ☐ or ☐ foreign subsidiary ☐ during or subsequent to the end of ☐ the ☐ policy period ☐
- K. "First named insured" means the person or entity as identified in Item 1. of the Declarations to this Policy. The Ifirst named insured is the party responsible for the payment of any premiums and the payment of, or evidencing payment of, any applicable Self-insured retention amounts. The Ifirst named insured shall also serve as the sole agent on behalf of all Insureds with respect to the provision and receipt of notices, including notice of cancellation or non-renewal, receipt and acceptance of any endorsements or any other changes to this Policy, return of any premium, assignment of any interest pursuant to this Policy, as well as the exercise of any applicable extended reporting period unless any such responsibilities are otherwise designated by endorsement.
- L. "Foreign claim" means the assertion of a legal right received by an finsured from a third-party, including, but not limited to, suits or other actions, alleging responsibility or liability on the part of any finsured for foreign loss arising out of a pollution condition to which Coverages A. or B. of this Policy, or any Supplemental Coverages for third-party liability added to this Policy by endorsement, would otherwise apply, which is located in a jurisdiction in which the Insurer is not licensed and the Insurer is not permitted to provide insurance without a license.
- M. "Foreign loss" means claims, remediation costs, and any associated regal defence expense or other covered loss, for which a remediate legally responsible for payment of, and to which Coverages A. or B. of this Policy, or any Supplemental Coverages added to this Policy by endorsement, would otherwise apply, but for the fact that the associated pollution condition is located in a jurisdiction in which the Insurer is not licensed and the Insurer is not permitted to provide insurance without a license with respect to the such pollution condition. □

## N. "Foreign subsidiary" means:

- 1. The entities identified on the Schedule of Foreign Subsidiaries attached to this Policy, if any; and
- 2. Any entity which would otherwise qualify as a mamed insured or additional insured as defined in any Broad Named Insured or Broad Additional Insured Schedule or Endorsement attached to this Policy, but for the fact that such entity is domiciled, or its principal place of business is located in a jurisdiction in which the Insurer is not licensed and the Insurer is not permitted to provide insurance to the entity without a license.
- O. "Foreign subsidiary claim" means a written demand made by a foreign subsidiary to the first named insured or other mamed insured seeking reimbursement or indemnification for foreign subsidiary loss to the first named insured seeking reimbursement or indemnification for foreign subsidiary loss to the first named insured seeking reimbursement or indemnification for foreign subsidiary loss to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to the first named insured to th
- P. "Foreign subsidiary loss" means claims, remediation costs, and any associated degal defence expense or other covered loss, for which a foreign subsidiary is legally responsible for payment of, and to which Coverages A. or B. of this Policy, or any Supplemental Coverages added to this Policy by endorsement, would otherwise apply, but for the fact that the foreign subsidiary is located in a jurisdiction in which the Insurer is not licensed and the Insurer is not permitted to provide insurance without a license with respect to the related pollution condition.
- **Q.** "Fungi" means any form or type of mould, yeast, mushroom or mildew whether or not allergenic, pathogenic or oxygenic and any substance, vapor or gas produced by, emitted from or arising out of any fungi or spore or resultant mycotoxins, allergens or pathogens.



- **R.** "Government action" means action taken or liability imposed by any international (including European Union), national, federal, state, commonwealth, provincial, municipal or other local government agency or body acting pursuant to the authority of environmental law.
- S. "Illicit abandonment" means the intentional placement, abandonment or disposal of any solid, liquid, gaseous or thermal irritant, contaminant, or pollutant, including smoke, soot, vapors, fumes, acids, alkalis, chemicals, hazardous substances, hazardous materials, or waste materials, including flow-level radioactive waste mixed waste and medical, infectious and pathological wastes, on, at or into a covered location by a person or entity that:
  - 1. Is not an insured or iforeign subsidiary:
  - 2. Is not affiliated by common ownership with an finsured or foreign subsidiary and
  - 3. Does not maintain, or has not maintained, an ownership or operational interest in the covered location □
- **T.** "Insured" means the first named insured any mamed insured any additional insured and any past or present director or officer of, partner in, employee of, temporary or leased worker of, or, with respect to a limited liability company, a member of, any insured while acting within the scope of his or her duties as such.

Notwithstanding the foregoing, any otherwise applicable person, above, that is domiciled, or its principal place of business is located, in a jurisdiction where the Insurer is not licensed and may not insure the person without a license, shall not be an finsured pursuant to this Policy. Instead, the Insurer agrees to indemnify the finamed insured for amounts it represents that it has a contractual or other legal obligation to indemnify such person for sums that the person is legally obligated to pay for bodily injury property damage and finemediation costs including associated degal defence expense consistent with the indemnity coverage afforded to finamed insured with respect to foreign subsidiary loss pursuant to Section I., INSURING AGREEMENTS, Subsection C., FOREIGN POLLUTION CONDITIONS, Paragraph 2., of this Policy.

- **U.** "Legal defence expense" means reasonable legal costs, charges, and expenses, including expert charges, incurred by the tinsured or tiporeign subsidiary in the investigation, adjustment or defence of to claims to reign claims or underlying matters substantiating tiporeign subsidiary claims to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
- V. "Low-level radioactive waste" means waste that is radioactive but not classified as the following: high-level waste (spent nuclear fuel or the highly radioactive waste produced if spent fuel is reprocessed), uranium milling residues, and waste with greater than specified quantities of elements heavier than uranium.
- W. "Mixed waste" means:
  - 1. Waste containing both radioactive and hazardous components as defined pursuant to United States law within the Atomic Energy Act and the Resource Conservation and Recovery Act, as either may be amended; and
  - 2. Waste containing both radioactive and hazardous components that is located in any other jurisdiction to the extent that such waste would be subject to the laws of the United States of American, above, if the waste was physically located there.
- X. "Named insured" means any person or entity specifically endorsed onto this Policy as a ☐named insured☐ if any. Such ☐named insured☐shall maintain the same rights pursuant to this Policy as the ☐first named insured☐ except for those rights specifically reserved to the ☐first named insured☐that are identified in Subsection K., above.
- Y. "Natural resource damage" means injury to, destruction of, or loss of, including the resulting loss of value of, fish, wildlife, biota, land, air, water, groundwater, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by Canada or the United States (including the resources of the exclusive economic zone and continental shelf of Canada as established by the Oceans Act, S.C. 1996, c.31 and the fishery conservation zone established by the Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. □ 1801 et. seq.)), any state or local government, any foreign government, or any First Nations or Native American Tribe, or, if such resources are subject to a trust restriction on alienation, any members of any First Nations or Native American Tribe, including the reasonable costs of assessing such injury, destruction or loss resulting therefrom.



- **Z.** "Non-owned disposal site" means any disposal site or recycling facility not owned or operated by an lineared or iforeign subsidiary which receives, or has historically received, an lineared or iforeign subsidiary waste.
- AA. "Ownership interest" means the percentage ownership interest that the mamed insured has in its foreign subsidiary prior to, and at the time of, the mamed insured discovery of the pollution condition or its discovery of the underlying matter substantiating the foreign subsidiary claim with respect to the pollution condition whichever occurs first.
- **BB.** "Ownership loss" means the mamed insured ownership interest in the foreign subsidiary multiplied by the amount of the foreign subsidiary loss □

## CC. "Policy period" means:

- 1. The period of time specifically identified in Item 2.a. of the Declarations to this Policy for Coverage A., Item 3.a. of the Declarations to this Policy for Coverage B. and or Item 4.a. of the Declarations to this Policy for Coverage C.;
- 2. With respect to covered locations added pursuant to the Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any, the period of time following the closing date of the acquisition transaction or the effective date of the lease, as applicable, through the applicable expiration date of the Policy identified in Item 2.a., 3.a. or 4.a. of the Declarations to this Policy with respect to New Pollution Conditions Coverage, Pre-Existing Pollution Conditions Coverage and Foreign Pollution Conditions Coverage, respectively; or
- 3. Any shorter period resulting from the cancellation of this Policy.

### DD. "Pollution condition" means:

- 1. The presence of fungi or legionella pneumophila;
- 2. Illicit abandonment or
- 3. The discharge, dispersal, release, escape, migration, or seepage of any solid, liquid, gaseous or thermal irritant, contaminant, or pollutant, including smoke, soot, vapors, fumes, acids, alkalis, chemicals, hazardous substances, hazardous materials, or waste materials, on, in, into, or upon land and structures thereupon, the atmosphere, surface water, or groundwater. For the purpose of this definition, waste materials include, but are not limited to, □ow-level radioactive waste □and □mixed waste □

### EE. "Property damage" means:

- **1.** Physical injury to, or destruction of, tangible property of a third-party, including all resulting loss of use of that property;
- 2. Loss of use of tangible property of a third-party, that is not physically injured or destroyed;
- 3. Diminished value of tangible property owned by a third-party;
- 4. Natural resource damages or
- 5. With respect to pollution conditions ocated within the European Union, biodiversity damages □
- **FF. Registered occupational hygienist**" means a certified professional, as established by the Canadian Registration Board of Occupational Hygienists (or its functional equivalent in any foreign jurisdiction), that is:
  - 1. Mutually agreed upon by the Insurer and the insured; and
  - Qualified by knowledge, skill, education and training to perform an assessment of the fungal or bacterial ecology of a property, building systems and or contents, prepare an investigation protocol, interpret the results and prepare a scope of work to remediate the site to an ordinary ambient indoor air ecology for similar indoor environments.

The Insurer may also exercise the right to require that such registered occupational hygienist" have certain minimum qualifications with respect to their competency, including experience with similar regional projects.



- **GG.** "Remediation costs" means reasonable expenses incurred to investigate, quantify, monitor, mitigate, abate, remove, dispose, treat, neutralize, or immobilize a pollution condition that is required:
  - 1. In order to meet the standards for pollution conditions applicable to the existing use of the covered location.
  - 2. Pursuant to the entry of a covered location into a voluntary cleanup program that has been sanctioned or approved by the national, federal, provincial, state or local government ministry, department or agency with jurisdiction over the pollution condition or
  - 3. Pursuant to any other written order or direction received by an ⊡nsured from any court, or national, federal, provincial, state or local government ministry, department or agency, with jurisdiction over the pollution condition □

If no applicable standards exist that govern the remediation of fungi or *legionella pneumophila* in the jurisdiction of the covered location, necessary "remediation costs" may be established by securing the written professional recommendations of a registered occupational hygienist retained with the prior approval of the Insurer.

### "Remediation costs" shall also include:

- **1.** Reasonable legal cost, where such cost has been incurred by an finsured □ or foreign subsidiary □ with the written consent of the Insurer; and
- 2. Reasonable expenses required to restore, repair or replace real or personal property, to substantially the same condition it was in prior to being damaged during the course of responding to a pollution condition.
- **HH.** "Responsible person" means any employee of an ⊡nsured responsible for environmental affairs, control, or compliance at a covered location and any officer or director of, or partner in, an ⊡nsured or ☐foreign subsidiary.
- **II.** "Self-insured retention" means the dollar amount identified in Item 2.d. of the Declarations to this Policy for Coverage A., Item 3.d. of the Declarations to this Policy for Coverage B. and or Item 4.d. of the Declarations to this Policy for Coverage C., or as otherwise designated by endorsement to this Policy, if any.
- **JJ.** "**Spore**" means any reproductive particle or microscopic fragment produced by, emitted from or arising out of any fungi□
- KK. "Standards" means published standards or cleanup guidelines established pursuant to federal, provincial or local laws, regulations or statutes, or any subsequent amendments thereof, that govern response actions to pollution conditions. Standards shall not include any standard established by the insured pursuant to a risk assessment or site-specific risk assessment completed in compliance with federal, provincial or local laws, regulations or statutes, until such time as the federal, provincial or local government ministry, department or agency with jurisdiction over the pollution condition has authorized any such standard in a writing directed to the insured or iforeign subsidiary.
- **LL.** "Terrorism" means activities against persons, organizations or property of any nature:
  - 1. That involve the following or preparation for the following:
    - a. Use or threat of force or violence; or
    - **b.** Commission or threat of a dangerous act; or
    - Commission or threat of an act that interferes with or disrupts an electronic, communication, information, or mechanical system; and
  - **2.** When one or both of the following applies:
    - **a.** The effect is to intimidate or coerce a government or the civilian population or any segment thereof, or to disrupt any segment of the economy; or
    - **b.** It appears that the intent is to intimidate or coerce a government, or to further political, ideological, religious, social or economic objectives or to express (or express opposition to) a philosophy or ideology.



- MM. "Underground storage tank" means any tank and associated piping and appurtenances connected thereto which tank has more than ten percent (10 ) of its volume below ground. □Underground storage tank □does not mean a septic tank or oil water separator.
- **NN.** "War" means war, whether or not declared, civil war, martial law, insurrection, revolution, invasion, bombardment or any use of military force, usurped power or confiscation, nationalization or damage of property by any government, military or other authority.

#### VI. EXCLUSIONS

This insurance shall not apply to:

#### A. Asbestos

© Claims ☐ Tremediation costs ☐ Iforeign loss ☐ Townership loss ☐ Iforeign subsidiary loss ☐ or □ legal defence expenses ☐ arising out of or related to asbestos or asbestos-containing materials.

This exclusion shall not apply to remediation costs arising out of asbestos or asbestos-containing materials discovered in soil or groundwater.

## **B.** Claims Against Foreign Subsidiaries

Underlying claims or associated degal defence expenses made directly against any foreign subsidiary. This exclusion shall not apply to foreign subsidiary claims against a mamed insured that are otherwise covered pursuant to Coverage **C.** of this Policy.

Notwithstanding, this insurance shall not apply to any Iforeign subsidiary claim alleging, based upon, arising out of, or attributable to, any claim, suit, action, loss, or act, error or omission, which would have been excluded if made against or incurred by an Insured pursuant to Coverages A. or B., or any Supplemental Coverages added to this Policy by endorsement.

#### C. Contractual Liability

Claims ☐ remediation costs ☐ foreign loss ☐ remediation costs ☐ foreign loss ☐ remediation costs ☐ remediation contract or agreement, except if the liability would have attached to the finsured ☐ or foreign subsidiary ☐ in the absence of such contract or agreement.

This exclusion shall not apply to:

- **2.** Foreign subsidiary claims premised upon liability of a foreign subsidiary assumed by a mamed insured through a contract or agreement to which Coverage **C.** of this Policy applies.

## D. Divested Property

Claims ☐ remediation costs ☐ foreign loss ☐ remediation costs ☐ foreign loss ☐ remediation condition ☐ remediation condition ☐ remediation ☐

This exclusion shall not apply to Coverage **B.** and any corresponding foreign coverage provided pursuant to Coverage **C.** 

### E. Employers Liability

©laims ☐ foreign loss ☐ ownership loss ☐ foreign subsidiary loss ☐ flegal defence expenses ☐ arising out of or related to bodily injury ☐ to:

1. Any finsured or any employee of its parent corporation, fforeign subsidiary subsidiary or affiliate:



- **a.** Arising out of, or in the course of, employment by any ⊡nsured ☐ its parent corporation, ☐foreign subsidiary ☐ subsidiary ☐ affiliate; or
- **b.** Performing duties related to the conduct of the business of any lineared, its parent corporation, Iforeign subsidiary, subsidiary or affiliate.
- 2. The spouse, child, parent, brother or sister of any finsured or employee of its parent corporation, foreign subsidiary or affiliate as a consequence of Paragraph 1., above.

This exclusion applies:

- 1. Whether an ⊡nsured or foreign subsidiary may be liable as an employer or in any other capacity; and
- 2. To any obligation to share damages with or repay someone else who must pay damages because of such bodily injury

### F. Fines and Penalties

Payment of criminal fines, criminal penalties, punitive, exemplary or multiplied damages, or any associated claims seeking exclusively injunctive relief in addition to such fines, penalties or damages.

This exclusion also applies to any degal defence expense associated with such fines and penalties.

This exclusion shall not apply to punitive or exemplary damages where such coverage is insurable by law.

## G. First-Party Property Damage

Claims ☐ foreign loss ☐ foreign subsidiary loss ☐ freign subsidiary loss ☐ freign defence expenses ☐ arising out of or related to damage to real or personal property owned by, leased to, loaned to, or rented by any finsured ☐ or freign subsidiary ☐ or otherwise in the care, custody, or control of any finsured ☐ or froeign subsidiary ☐

This exclusion shall not apply to remediation costs.

## H. Fraud or Misrepresentation

Claims ☐ Tremediation costs ☐ Iforeign loss ☐ Toreign subsidiary loss ☐ Tremediation costs ☐ Iforeign subsidiary loss ☐ Ifore

- Fraudulent acts or material misrepresentations on the part of the first named insured 

  made:
  - a. Within the Application to this Policy; or
  - **b.** During the Application or underwriting process prior to the inception date identified in Item **2.a.**, **3.a.** or **4.a.** of the Declarations to this Policy, as applicable, which would have affected the Insurers decision to either issue this Policy, or issue this Policy and its endorsements pursuant to the financial terms identified in the Declarations to this Policy; or
- 2. Fraudulent acts or material misrepresentations on the part of any ☐responsible person☐during the ☐policy period☐

## I. Insured's Internal Expenses

Claims ☐ Tremediation costs ☐ Iforeign loss ☐ Townership loss ☐ Iforeign subsidiary loss ☐ Tegal defence expenses ☐ arising out of or related to expenses incurred by any Insured ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidiary ☐ Iforeign subsidia

This exclusion shall not apply to ⊡emergency response or any costs, charges or expenses incurred with the prior written approval of the Insurer at its sole discretion.

### J. Insured vs. Insured

Claims made by any tinsured or tioreign subsidiary against any other tinsured or tioreign subsidiary against any other tinsured or tioreign subsidiary. ■



This exclusion shall not apply to foreign subsidiary claims premised upon liability of a foreign subsidiary for which a mamed insured has a legal obligation to reimburse such foreign subsidiary as contemplated within Coverage **C**. of this Policy.

## K. Intentional Non-Compliance

©Claims © remediation costs © foreign loss © ownership loss © foreign subsidiary loss or degal defence expenses arising out of or related to the intentional disregard of, or knowing, willful, or deliberate non-compliance with, any law, statute, regulation, administrative complaint, notice of violation, notice letter, instruction of any governmental agency or body, or executive, judicial or administrative order by any responsible person ©

#### L. Known Conditions

Claims
☐ remediation costs
☐ foreign loss
☐ remediation costs
☐ foreign loss
☐ remediation costs
☐ foreign loss
☐ remediation costs
☐ remediation

- 1. Prior to the policy period or
- 2. With respect to covered locations acquired or leased by a mamed insured or foreign subsidiary and added to the Policy during the policy period pursuant to an Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any, prior to the closing date of the acquisition or effective date of the lease of such covered locations.

including any pollution conditions discovered during the normal course of further investigation or remediation of such reported pollution conditions.

This exclusion shall not apply to:

- 2. Pollution conditions that have been reported to the responsible person as not being actionable pursuant to renvironmental law in any Phase I or Phase II Environmental Site Assessment report (or its functional equivalent with respect to any reversed location situated in a jurisdiction outside of Canada or the United States of America) specifically prepared for a remanded insured or foreign subsidiary by a qualified environmental consultant. To the extent that the qualified consultants actionability determination is premised, in whole or in part, on the use of institutional or engineering controls in effect at a reovered location any coverage afforded pursuant to this paragraph shall be contingent upon:
  - 1. The continued maintenance of said engineering controls; and
  - 2. The continued use of the property in a manner consistent with the consultant s reported assumptions, during the policy period □

#### M. Lead-Based Paint

© Claims ☐ Tremediation costs ☐ Iforeign loss ☐ Toreign subsidiary loss ☐ or ☐ legal defence expenses ☐ arising out of or related to lead-based paint.

This exclusion shall not apply to remediation costs arising out of lead-based paint discovered in soil or groundwater.

### N. Material Change in Risk

Claims ☐ remediation costs ☐ foreign loss ☐ remediation costs ☐ foreign loss ☐ remediation costs ☐ foreign subsidiary loss ☐ regal defence expenses ☐ arising out of or related to a change in the use or operations at a recovered location ☐ that materially increases the likelihood or severity of a pollution condition ☐ relatin ☐ from the intended uses or operations identified:

1. By the first named insured of the Insurer in the Application and accompanying underwriting materials provided prior to the inception date identified in Item 2.a., 3.a. or 4.a. of the Declarations to this Policy, as applicable; or



2. With respect to covered locations added to the Policy pursuant to the Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any, as part of the due diligence materials and supplemental underwriting materials provided to the Insurer as part of the notice required pursuant to that endorsement.

This exclusion shall only apply to the covered location associated with the change in use or operations and shall not limit coverage for other covered locations to which this insurance applies.

## O. Naturally Occurring Materials

Claims ☐ Tremediation costs ☐ Iforeign loss ☐ Townership loss ☐ Iforeign subsidiary loss ☐ or I legal defence expenses ☐ arising out of or related to the presence or removal of naturally occurring materials.

This exclusion shall not apply in those circumstances where naturally occurring substances are present at a covered location as a result of human activities or human processes.

## P. Non-Owned Disposal Sites

© Claims ☐ Tremediation costs 
This exclusion shall not apply to any non-owned disposal site specifically identified on a Schedule of Non-Owned Disposal Sites Endorsement attached to this Policy, if any.

## Q. Underground Storage Tanks

Claims remediation costs foreign loss fownership loss foreign subsidiary loss or flegal defence expenses arising out of or related to pollution conditions emanating from an underground storage tank ocated at a covered location, when the existence of such underground storage tank was known to a responsible person prior to the policy period and

- 1. The ☐underground storage tank☐ is not identified on the Schedule of Insured Underground Storage Tanks Endorsement attached to this Policy, if any; or
- 2. The □underground storage tank has been closed or removed, and is not identified on the Schedule of Known Conditions Endorsement attached to this Policy, if any.

## R. Vehicles

Claims remediation costs foreign loss rownership loss foreign subsidiary loss or flegal defence expenses arising out of or related to pollution conditions resulting from the use, maintenance or operation, including loading or unloading, of an automobile, aircraft, watercraft, railcar or other conveyance beyond the boundaries of a covered location.

This exclusion shall not apply to contingent transportation if such coverage is added to this Policy by endorsement.

### S. War or Terrorism

Claims remediation costs foreign loss rownership loss foreign subsidiary loss or flegal defence expenses arising out of or related to pollution conditions attributable, whether directly or indirectly, to any acts that involve, or that involve preparation for, war or fterrorism regardless of any other cause or event that contributes concurrently or in any sequence to the injury or damage.



### VII. REPORTING AND COOPERATION

- A. It is a condition precedent to coverage pursuant to this Policy that the <code>insured</code>provides the Insurer with written notice of any <code>claim</code> <code>foreign</code> claim <code>claim</code> <code>foreign</code> subsidiary claim <code>claim</code> <code>claim</code> <code>claim</code> as soon as practicable, at the address identified in Item 8.a. of the Declarations to this Policy. Notice should include reasonably detailed information as to:
  - 1. The identity of the tinsured and tforeign subsidiary including contact information for an appropriate person to contact regarding the handling of the tolaim tforeign claim tforeign subsidiary claim or tolaim condition. □
  - 2. The identity of the covered location:
  - 3. The nature of the claim ☐ Iforeign claim ☐ Iforeign subsidiary claim ☐ or pollution condition ☐ and
  - **4.** Any steps undertaken by the ⊡nsured or ☐foreign subsidiary to respond to the ☐claim ☐ ☐foreign claim ☐ ☐foreign subsidiary claim ☐ ☐ ☐foreign subsidiary ☐foreign subsidiary ☐foreign foreign claim ☐ ☐ ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign subsidiary ☐foreign foreign ☐foreign foreign In the event of a pollution condition it is also a condition precedent to coverage that the insured and or foreign subsidiary take all reasonable measures to provide immediate verbal notice to the Insurer.

- B. It is a condition precedent to coverage pursuant to this Policy that the <code>insured</code>
  - 1. As soon as practicable, send the Insurer copies of any demands, notices, writs of summons, statements of claim, petitions or other originating legal process received in connection with any claim ☐ foreign claim ☐ receipn subsidiary claim ☐
  - 2. Authorize the Insurer to obtain records and other information;
  - 3. Cooperate with the Insurer in the investigation, settlement or defence of the claim ☐ foreign claim ☐ foreign subsidiary claim ☐
  - **4.** Assist the Insurer, upon the Insurers request, in the enforcement of any right against any person or organization which may be liable to the finsured or a foreign subsidiary because of bodily injury property damage, remediation costs, foreign loss, whereship loss, foreign subsidiary loss, or legal defence expense to which this Policy may apply; and
  - 5. Provide the Insurer with such information and cooperation as it may reasonably require.
- C. No insured or foreign subsidiary shall make or authorize an admission of liability or attempt to settle or otherwise dispose of any claim foreign claim or underlying matter substantiating any foreign subsidiary claim without the written consent of the Insurer. Nor shall any insured retain any consultants or incur any memediation costs without the prior express written consent of the Insurer, except in the event of an immergency response.
- D. Upon the discovery of a □pollution condition□ the □insured□and or □foreign subsidiary□shall make every attempt to mitigate any loss and comply with applicable □environmental law□. The Insurer shall have the right, but not the duty, to mitigate such □pollution conditions□if, in the sole judgment of the Insurer, the □insured□and or □foreign subsidiary□ fails to take reasonable steps to do so. In that event, any □remediation costs□incurred by the □insurer shall be deemed incurred by the □insured□ and shall be subject to the □self-insured retention□and Limits of Liability identified in the Declarations to this Policy.

#### VIII. EXTENDED REPORTING PERIOD

A. The first named insured shall be entitled to a basic extended reporting period and may purchase an optional supplemental extended reporting period following Cancellation, as described in Subsection A., Paragraph 1. of Section IX., GENERAL CONDITIONS, or nonrenewal.



- **B.** Extended reporting periods shall not reinstate or increase any of the Limits of Liability. Extended reporting periods shall not extend the policy period or change the scope of coverage provided. A claim foreign claim or foreign subsidiary claim first made against an insured and reported to the Insurer within the basic extended reporting period or supplemental extended reporting period whichever is applicable, shall be deemed to have been made and reported on the last day of the policy period
- **C.** Provided the first named insured has not purchased any other insurance to replace this Policy, the first named insured shall have a sixty (60) day basic extended reporting period without additional charge.
- D. Provided the first named insured has not purchased any other insurance to replace this Policy, the first named insured shall also be entitled to purchase a supplemental extended reporting period of up to thirty-four (34) months for not more than two hundred percent (200) of the full premium identified in Item 6. of the Declarations to this Policy, and any additional premiums resulting from coverage added during the policy period Such supplemental extended reporting period starts when the basic extended reporting period ends. The Insurer shall issue an endorsement providing a supplemental extended reporting period provided that the first named insured
  - **1.** Makes a written request, to the address identified in Item **8.b.** of the Declarations to this Policy, for such endorsement which the Insurer receives prior to the expiration of the policy period; and
  - 2. Pays the additional premium when due. If that additional premium is paid when due, the supplemental extended reporting period may not be cancelled, provided that all other terms and conditions of the Policy are met.

### IX. GENERAL CONDITIONS

## A. Cancellation

- 1. This Policy may be cancelled only by the first named insured □ or through the first named insured □ agent, by mailing to the Insurer at the address identified in Item 8.b. of the Declarations to this Policy, written notice stating when such cancellation shall be effective.
- 2. This Policy may be cancelled by the Insurer for the following reasons:
  - a. Non-payment of premium; or
  - **b.** Fraud or material misrepresentation on the part of any insured or iforeign subsidiary.

by mailing to the first named insured at the first named insured salast known address, written notice stating when, not less than sixty (60) days thereafter, fifteen (15) days if cancellation is for non-payment of any unpaid portion of the premium, such cancellation shall be effective. The mailing of notice shall be sufficient proof of notice. The effective date and hour of cancellation stated in the notice shall be the end of the policy period.

Subparagraph **2.b.**, herein, shall apply only to that <code>insured</code>that engages in the fraud or misrepresentation. This exception shall not apply to any <code>insured</code>who is a parent corporation, subsidiary, employer of, or otherwise affiliated by ownership with, such <code>insured</code> including the relevant <code>inamed</code> insured <code>in</code> the event that the implicated entity is a <code>iforeign</code> subsidiary.

3. In the event of cancellation, the premium percentage identified in Item 6. of the Declarations to this Policy shall be the minimum-earned premium upon the inception date identified in Item 2.a. of the Declarations to this Policy. Thereafter, the remaining unearned premium, if any, shall be deemed earned by the Insurer on a *pro rata* basis over the remainder of the policy period Any unearned premium amounts due the first named insured upon cancellation of this Policy shall be calculated on a *pro rata* basis and refunded within thirty (30) days of the effective date of cancellation.

## B. Inspection and Audit



To the extent of the <code>linsured</code> or <code>linsured</code> subsidiary <code>linsured</code> to provide such access, and with reasonable notice to the <code>linsured</code> the <code>linsured</code> the <code>linsured</code> but not obligated, to inspect and sample the <code>linsured</code> locations <code>linsured</code> shall have the concurrent right to collect split samples. Neither the <code>linsurer</code> right to make inspections, the making of said inspections, nor any report thereon shall constitute an undertaking, on behalf of or for the <code>linsured</code> or others, to determine or warrant that such property or operations are safe or in compliance with <code>linsured</code> or any other law.

The Insurer may examine and audit the insured solows and records during this policy period and extensions thereof and within three (3) years after the final termination of this Policy.

## C. Legal Action Against the Insurer

No person or organization other than an finsured that a right pursuant to this Policy:

- 1. To join the Insurer as a party or otherwise bring the Insurer into a suit against any ⊡nsured □ or ☐foreign subsidiary □ or
- 2. To sue the Insurer in connection with this insurance unless all of the Policy terms have been fully complied with.

## D. Bankruptcy

The insolvency or bankruptcy of any <code>insured</code>or <code>foreign</code> subsidiary, or any <code>insured</code>'s or <code>foreign</code> subsidiary cestate, shall not relieve the Insurer of its obligations pursuant to this Policy. However, any such insolvency or bankruptcy of the <code>insured</code>or <code>foreign</code> subsidiary or the <code>insured</code>or <code>foreign</code> subsidiary cestate, shall not relieve the <code>insured</code>of its <code>self-insured</code> retention obligations pursuant to this Policy. This insurance shall not replace any other insurance to which this Policy is excess, nor shall this Policy drop down to be primary, in the event of the insolvency or bankruptcy of any underlying insurer.

#### E. Subrogation

In the event of any payment pursuant to this Policy by the Insurer, the Insurer shall be subrogated to all of the rights of recovery against any person or organization, and the finsured shall, and shall cause all foreign subsidiaries to, execute and deliver instruments and papers and do whatever else is necessary to secure such rights. All finsureds and foreign subsidiaries shall do nothing to prejudice such rights. Any recovery as a result of subrogation proceedings arising pursuant to this Policy shall accrue first to the "insureds" to the extent of any payments in excess of the limit of coverage; then to the Insurer to the extent of its payment pursuant to the Policy; and then to the "insured" to the extent of the self-insured retention. Expenses incurred in such subrogation proceedings shall be apportioned among the interested parties in the recovery in the proportion that each interested party's share in the recovery bears to the total recovery.

#### F. Representations

By accepting this Policy, the first named insured agrees that:

- **1.** The statements in the Declarations, schedules and endorsements to, and Application for, this Policy are accurate and complete;
- 2. Those statements and representations constitute warranties that the first named insured □ made to the Insurer; and
- 3. This Policy has been issued in reliance upon the first named insured \subseteq warranties.

## G. Separation of Insureds

Except with respect to the Limits of Liability, Cancellation condition **2.a.**, above, the Fraud or Misrepresentation Exclusion, the Insured vs. Insured Exclusion, the Intentional Non-Compliance Exclusion, the Known Conditions Exclusion, the Material Change in Risk Exclusion, the Underground Storage Tanks Exclusion, and any obligations specifically assigned to the first named insured this Policy applies:



- 1. As if each mamed insured were the only insured and
- 2. Separately to each named insured against whom a claim is made.

#### H. Other Insurance

If other valid and collectible insurance is available to any foreign subsidiary covering a loss also covered by this Policy, other than a policy that is specifically written to apply in excess of this Policy, the insurance afforded by this Policy shall apply in excess of and shall not contribute with such other insurance.

### I. Jurisdiction and Venue

It is agreed that in the event of the failure of the Insurer to pay any amount claimed to be due hereunder, the Insurer and the insured shall submit to the exclusive jurisdiction of the Province of Ontario and shall comply with all requirements necessary to give an Ontario court such jurisdiction. Further, it is also agreed that there is no concurrent jurisdiction in any court outside of the Province of Ontario.

#### J. Choice of Law

All matters arising hereunder, including questions relating to the validity, interpretation, performance, and enforcement of this Policy, and the rights, duties and obligations hereunder, shall be determined in accordance with the law and practices of the Province of Ontario.

## K. Proof of Insurance in Foreign Jurisdictions

This Policy shall not serve as proof of insurance in any country where non-admitted insurance is prohibited by local applicable law.

## L. Changes and Assignment

Notice to or knowledge possessed by any person shall not effect waiver or change in any part of this Policy or estop the Insurer from asserting any right pursuant to the terms of this Policy. The terms, definitions, conditions, exclusions and limitations of this Policy shall not be waived or changed, and no assignment of any interest in this Policy shall bind the Insurer, except as provided by endorsement and attached to this Policy.

#### M. Headings

The descriptions in the headings and sub-headings of this Policy are inserted solely for convenience and do not constitute any part of the terms or conditions hereof.

#### N. Consent

Where the consent of the Insurer, or an insured is required pursuant to this Policy, such consent shall not be unreasonably withheld, delayed, conditioned, or denied.

#### O. Currency

Payments made by the Insurer pursuant to this Policy shall be made in the same currency as the Limits of Liability identified in the Declarations to this Policy. At the Insurers sole option, and upon any sinsureds request, the Insurer may choose to pay any sums due pursuant to this Policy in any relevant currency. When any such payment involves a currency other than that of the Limits of Liability of this Policy, the Insurer shall convert the value of the payment from the currency of the Limits of Liability of this Policy, using the free rate of exchange as published in *The Wall Street Journal* in effect at the end of the last business day preceding the date of settlement of the loss. Once the Insurer makes any such conversion from another currency, the Insurer shall apply all of the other terms and conditions of this Policy to determine the final amount of its payment obligation.



## SCHEDULE OF ADDITIONAL INSUREDS (Broad) ENDORSEMENT (GPPL)

| Named Insured CCL Industri                                                        | ies Inc.                     |                                              | Endorsement Number 1 |
|-----------------------------------------------------------------------------------|------------------------------|----------------------------------------------|----------------------|
| Policy Symbol Policy Number 333621 Policy Period March 31, 2015 to March 31, 2018 |                              | Effective Date of Endorsement March 31, 2015 |                      |
| Issued By (Name of ACE INA Ins                                                    | of Insurance Company) urance |                                              |                      |

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

- I. The persons or entities within the scope of the description contained in the Schedule of Additional Insureds, below, are additional insureds pursuant to this Policy, but solely: 1) with respect to their vicarious liability arising out of any mamed insured or foreign subsidiary direct liability for a pollution condition on, at under or migrating from a covered location to which this insurance applies; and 2) to the extent that such person or entity is domiciled or its principle place of business is located in Canada or another jurisdiction where the Insurer is either licensed or legally permitted to provide insurance without a license.
- II. In the event that any person or entity inadvertently identified within the scope of the description contained in the Schedule of Additional Insureds, below, is domiciled or its principle place of business is located in a jurisdiction where the Insurer is not licensed and may not provide insurance without a license, such person or entity shall not be an additional insured pursuant to this Policy. Instead, the Insurer agrees to indemnify the relevant mamed insured represents that it has a contractual or other legal obligation to: 1) indemnify such person or entity for which they or it, respectively, have an underlying legal obligation to pay for bodily injury. Property damage or memediation costs, including any associated degal defence expense, arising out of a pollution condition, at, under or migrating from a covered location, or 2) secure insurance coverage for such person or entity for bodily injury. Property damage or memediation costs, including any associated degal defence expense, arising out of a pollution condition, at, under or migrating from a covered location, consistent with the indemnity coverage afforded to relevant mamed insureds with respect to foreign subsidiaries pursuant to Section I., INSURING AGREEMENTS, Subsection C., FOREIGN POLLUTION CONDITIONS, of this Policy.

### **Schedule of Additional Insureds**

- 1. All corporations, limited partnerships, limited liability partnerships, limited liability companies or other business entities or associations, other than joint ventures and general partnerships, as now or may hereinafter exist during the policy period in which a mamed insured maintains an ownership interest; and
- 2. All joint ventures or general partnerships, as now or may hereafter exist during the policy period to which a mamed insured is a party, as now or may hereinafter exist during the policy period but only to the extent of the mamed insured plegal responsibility for the vicarious liability of such joint venture or general partnership.



## SCHEDULE OF COVERED LOCATIONS (Coverages A. and/or B. – Retroactive Date) ENDORSEMENT (GPPL)

| Named Insured CCL Industri                                                 | ies Inc.                            |                                              | Endorsement Number 2 |
|----------------------------------------------------------------------------|-------------------------------------|----------------------------------------------|----------------------|
| Policy Symbol Policy Number Policy Period March 31, 2015 to March 31, 2018 |                                     | Effective Date of Endorsement March 31, 2015 |                      |
| Issued By (Name ACE INA Ins                                                | of Insurance Company) <b>urance</b> | 1                                            | 1                    |

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

I. Coverage is afforded pursuant to this Policy for the ©overed locations □identified in the Schedule of Covered Locations, below, but solely with respect to the respective Coverage Parts indicated therewith, and any corresponding coverage provided pursuant to Coverage C. of this Policy.

| <u>#</u> | SCHEDULE OF COVERED LOCATIONS                                                 | COVERAGE PROVIDED COVERAGE A. AND/OR B. | RETROACTIVE DATE |
|----------|-------------------------------------------------------------------------------|-----------------------------------------|------------------|
| 230      | 120 Merindale Drive, Croydon South, Victoria<br>Australia 3136                | A and B                                 | None             |
| 221      | 19 Railway Terrace, Nuriootpa, SA, Australia                                  | A and B                                 | None             |
| 158      | Riedstrasse 2, A-6845, Hohenems, Austria                                      | A and B                                 | None             |
| 231      | Schwefelbadstrasse1 , A-6845 Hohenems,<br>Austria                             | A and B                                 | None             |
| 200      | Werner-Heisenberg Strasse 6, 9100<br>Voelkermarkt, Kaernten, Austria          | A and B                                 | None             |
| 203      | R: Antonio Dar Street, 480 Crici⊡ma, Santa<br>Catarina (SC), Brazil           | A and B                                 | None             |
| 194      | Rodovia Vinhedo Viracopos, Km79 □Santa<br>C⊡ndida, Vinhedo □S o Paulo, Brazil | A and B                                 | None             |



|                                                                                                                                                                      | A 1D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.I.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rodovia Vinhedo Viracopos, Km79 □Santa C□ndida, Vinhedo □S o Paulo, BrazilVinhedo, Brazil next door to current location                                              | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 163 Robert Street East, Penetanguishene,<br>Ontario                                                                                                                  | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 35 McLachlan Drive, Etobicoke, Ontario                                                                                                                               | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Yongfeng Road                                                                                                                                                        | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Lot nos. 2,110,852 and 2,228,906 located in the bourrough of St. Bruno de Montarville, Town of Longueuil, Quebec                                                     | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cross of XinYe Nine Street and XinSheng Road,<br>West TEDA, Tianjin, 300457, P.R. China                                                                              | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gengyun Rd., Hefei Economic Technological Development Zone, 230601 Hefei, Anhui Province, China                                                                      | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hongqi Road, Parcel YH-LI-3 Yong He section of<br>the Guangzhou Economic and Technological<br>Development District, Guangdong Province,<br>Peoples Republic of China | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Bjergfruevej 4, Vaeggerloese, Marielyst,<br>Denmark                                                                                                                  | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nyager 11 □13, 2605 Br⊡ndby, Denmark                                                                                                                                 | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Nyager 15 □17, 2605 Br□ndby, Denmark                                                                                                                                 | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Tjaerbyvej 90, 8900 Randers, Denmark                                                                                                                                 | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 20 rue Louis Arago, 91380 Chilly-Mazarin Cedex, France                                                                                                               | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 34 route de Longjumeau, 91380 Chilly-Mazarin,                                                                                                                        | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                      | Cindida, Vinhedo S o Paulo, BrazilVinhedo, Brazil next door to current location  163 Robert Street East, Penetanguishene, Ontario  35 McLachlan Drive, Etobicoke, Ontario  Yongfeng Road  Lot nos. 2,110,852 and 2,228,906 located in the bourrough of St. Bruno de Montarville, Town of Longueuil, Quebec  Cross of XinYe Nine Street and XinSheng Road, West TEDA, Tianjin, 300457, P.R. China  Gengyun Rd., Hefei Economic Technological Development Zone, 230601 Hefei, Anhui Province, China  Hongqi Road, Parcel YH-LI-3 Yong He section of the Guangzhou Economic and Technological Development District, Guangdong Province, Peoples Republic of China  Bjergfruevej 4, Vaeggerloese, Marielyst, Denmark  Nyager 11 13, 2605 Brindby, Denmark  Nyager 15 7, 2605 Brindby, Denmark  Tjaerbyvej 90, 8900 Randers, Denmark  20 rue Louis Arago, 91380 Chilly-Mazarin Cedex, France | C Todida, Vinhedo S o Paulo, BrazilVinhedo, Brazil next door to current location  163 Robert Street East, Penetanguishene, Ontario  A and B  35 McLachlan Drive, Etobicoke, Ontario  A and B  Yongfeng Road  Lot nos. 2,110,852 and 2,228,906 located in the bourrough of St. Bruno de Montarville, Town of Longueuil, Quebec  Cross of XinYe Nine Street and XinSheng Road, West TEDA, Tianjin, 300457, P.R. China  Gengyun Rd., Hefei Economic Technological Development Zone, 230601 Hefei, Anhui Province, China  Hongqi Road, Parcel YH-LI-3 Yong He section of the Guangzhou Economic and Technological Development District, Guangdong Province, Peoples Republic of China  A and B  Bjergfruevej 4, Vaeggerloese, Marielyst, Denmark  Nyager 11 □ 13, 2605 Br⊡ndby, Denmark  A and B  Tjaerbyvej 90, 8900 Randers, Denmark  A and B  20 rue Louis Arago, 91380 Chilly-Mazarin Cedex, France  A and B |



|     | France                                                                                                                       |         |      |
|-----|------------------------------------------------------------------------------------------------------------------------------|---------|------|
|     |                                                                                                                              | A and B | None |
| 225 | 4 5, rue Descartes, 41350 Vineuil France                                                                                     |         |      |
| 235 | Le Parc De Geneve, RN 6 Lot No 9B, 69800<br>Saint Priest, France (Lyon)                                                      | A and B | None |
| 206 | Parcelle ZL66, ZA La Barogne, Moussy-Le-Neuf, 77230 France                                                                   | A and B | None |
| 183 | Val d⊠tur, F-24759 Tr lissac (P rigueux), France                                                                             | A and B | None |
| 182 | Br⊑ckenweg 5, D-08393 Meerane, Germany                                                                                       | A and B | None |
| 218 | CD-Design G.m.b.H, Lindgesfeld 26, 42653<br>Solingen, Germany                                                                | A and B | None |
| 224 | Eltex, Lindgesfeld 27, 42653 Solingen, Germany                                                                               | A and B | None |
| 181 | Industriestrsse 2, D-08607 Holzkirchen,<br>Germany                                                                           | A and B | None |
| 193 | Via del Commercio, 2 20049 Concorezzo,<br>Milano, Italy                                                                      | A and B | None |
| 214 | 1-27-10 Taito, Taido-Ku, Tokyo Japan 110-0000                                                                                | A and B | None |
| 134 | Avenida de la Luz No. 85 Fracc. Parque Industrial, La Luz, Cuautitlan, Izcalli, Mexico                                       | A and B | None |
| 199 | FINSA Industrial Park, Lots 21 and 23, Avenida Michoacan No. 20, Colonia Renovacion, Delegacion Iztapalapa, DF 09209, Mexico | A and B | None |
| 207 | San Jeronimo, Fed Hwy. □57, San Jose de Iturbide, Guanajuato, Mexico                                                         | A and B | None |
| 192 | I Jsselstraat 15, 5347 KG Oss, Netherlands                                                                                   | A and B | None |



| 178 | ul. Kierska-Kiekrz, 60-480 Rokietnica, Poland                                                                                                                               | A and B | None |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|
| 169 | Box 407, Morby Centrum, S-182 14 Danderyd,<br>Sweden                                                                                                                        | A and B | None |
| 240 | K⊑pmansgatan 13, 26933 Bastad, Sverige                                                                                                                                      | A and B | None |
| 155 | 69 Moo 5, Wellgrow Industrial Estate, Bangna<br>Road, Km 36, Bangsamak Sub-district,<br>Bangpakong District, Chachoengsao Province,<br>Thailand known as BK1                | A and B | None |
| 242 | 69 2 Moo 5 Wellgrow Industrial Estate, Bangna-<br>Trad Road, Km. 36, Bangsamak Subdistrict,<br>Bangpakong District, Chachoengsap province<br>known as BKII                  | A and B | None |
| 219 | 87 Moo 5 Wellgrow Industrial Estate, Bangna-<br>Trad Km. 36, Chachoengsao 24130, Thailand.                                                                                  | A and B | None |
| 246 | BKK III 69 2 Moo.5 Wellgrow Industrial Estate,<br>Bangna-Trad Km. 36, Bangsamark,<br>Bangpakong, Chachoengsao, 24180, Thailand<br>property next door to BKII known as BKIII | A and B | None |
| 196 | 10 Cairn Court, East Kilbride, Lanarkshire,<br>Scotland G74 4NB                                                                                                             | A and B | None |
| 204 | Hardwick Industrial Estate, Kings Lynn, North<br>Norfolk, UK                                                                                                                | A and B | None |
| 177 | Unit 3, Pioneer Way, Castleford, West Yorkshire, WF10 5QU                                                                                                                   | A and B | None |
| 202 | Unit 6, Pioneer Business Park, Whitwood,<br>Wakefield, West Yorkshire, United Kingdom<br>WF10 5QU                                                                           | A and B | None |
| 191 | Unit G, Foster Road, Ashford Business Park,<br>Sevington, Ashford, Kent TN24 0SH United<br>Kingdom                                                                          | A and B | None |



| 1 Llodio Drive, Hermitage, PA U.S.A.                                           | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1187 Industrial Rd., Cold Spring, KY 41076 (aka 300 Industrial Rd.)            | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1191 Industrial Rd., Bldg. 2, Cold Spring KY<br>41076 (aka 400 Industrial Rd.) | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 120 Stockton St., Hightstown, NJ 08520 U.S.A.                                  | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1200 W. Bailey St., Sioux Falls, S.D. U.S.A.                                   | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1209 W. Bailey St., Sioux Falls, S.D. U.S.A.                                   | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 15 Controls Dr., Shelton, Connecticut, 06484-<br>0511 U.S.A.                   | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 161 Worcester Rd,, Suite 410, Framingham, MA 01701                             | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1831□D Portal St., Baltimore, MD 21224                                         | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1862-1864 Suncast Lane, Batavia, IL                                            | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 208 Spring Drive, St. Charles, MO 63303                                        | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 235 Martin Rd., Cumberland, RI U.S.A.                                          | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2511 NW 30th Ave, Portland, OR                                                 | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 308 Rogers Lane, Raleigh, North Carolina 27610                                 | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4000 Westinghouse Blvd., Charlotte, NC 28273 U.S.A.                            | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 576 College Commerce Way, Upland, California 91786-4377                        | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                | 1187 Industrial Rd., Cold Spring, KY 41076 (aka 300 Industrial Rd.)  1191 Industrial Rd., Bldg. 2, Cold Spring KY 41076 (aka 400 Industrial Rd.)  120 Stockton St., Hightstown, NJ 08520 U.S.A.  1200 W. Bailey St., Sioux Falls, S.D. U.S.A.  1209 W. Bailey St., Sioux Falls, S.D. U.S.A.  15 Controls Dr., Shelton, Connecticut, 06484-0511 U.S.A.  161 Worcester Rd., Suite 410, Framingham, MA 01701  1831 D Portal St., Baltimore, MD 21224  1862-1864 Suncast Lane, Batavia, IL  208 Spring Drive, St. Charles, MO 63303  235 Martin Rd., Cumberland, RI U.S.A.  2511 NW 30th Ave, Portland, OR  308 Rogers Lane, Raleigh, North Carolina 27610  4000 Westinghouse Blvd., Charlotte, NC 28273 U.S.A.  576 College Commerce Way, Upland, California | 1187 Industrial Rd., Cold Spring, KY 41076 (aka 300 Industrial Rd.)  1191 Industrial Rd., Bldg. 2, Cold Spring KY 41076 (aka 400 Industrial Rd.)  120 Stockton St., Hightstown, NJ 08520 U.S.A.  1200 W. Bailey St., Sioux Falls, S.D. U.S.A.  1209 W. Bailey St., Sioux Falls, S.D. U.S.A.  15 Controls Dr., Shelton, Connecticut, 06484-0511 U.S.A.  161 Worcester Rd., Suite 410, Framingham, MA 01701  1831 D Portal St., Baltimore, MD 21224  A and B  1862-1864 Suncast Lane, Batavia, IL  208 Spring Drive, St. Charles, MO 63303  235 Martin Rd., Cumberland, RI U.S.A.  2511 NW 30th Ave, Portland, OR  308 Rogers Lane, Raleigh, North Carolina 27610  4000 Westinghouse Blvd., Charlotte, NC 28273 U.S.A.  576 College Commerce Way, Upland, California |



| T T                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 670 Progress Road, Collierville (Memphis),<br>Tennessee                                                                                                            | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Lot 2, Cidra Industrial Subdivision, Cidra, Puerto Rico                                                                                                            | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| North Gold Industrial Park, 104 North Gold Drive,<br>Robbinsville, NJ                                                                                              | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| One Lasley Avenue, Wilkes-Barre, Pennsylvania 18706                                                                                                                | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RD 102, KM 3.2, Calle B, El Retiro Industrial Park, San German, Puerto Rico 00683                                                                                  | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Watson Land Co., 2250 East 220th Street,<br>Building 220 Carson CA                                                                                                 | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| No.8 VSIPII, Street No.6, Vietnam Singapore<br>Industrial Park II, Binh Duong Industry-Service-<br>Urban Complex, Ben Cat District Binh Duong<br>Province, Vietnam | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 21481, Unit 15, 8th Street East Sonoma, CA<br>95476                                                                                                                | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1F 2-2-16 Higashiobase, Higasji Nariku, Osaka city, Osaka, Japan                                                                                                   | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Unit 4, 1A Bessemer Street, Blacktown, Australia                                                                                                                   | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Unit 7, 415-443 West Botany Street, Rockdale, NSW 2216                                                                                                             | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Carl-Zeiss-Str.3-5, Garching b. Munchen<br>Germany 85748                                                                                                           | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 269 Fleming Road, Meadowvale, Joahnnesburg,<br>South Africa                                                                                                        | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                    | Lot 2, Cidra Industrial Subdivision, Cidra, Puerto Rico  North Gold Industrial Park, 104 North Gold Drive, Robbinsville, NJ  One Lasley Avenue, Wilkes-Barre, Pennsylvania 18706  RD 102, KM 3.2, Calle B, El Retiro Industrial Park, San German, Puerto Rico 00683  Watson Land Co., 2250 East 220th Street, Building 220 Carson CA  No.8 VSIPII, Street No.6, Vietnam Singapore Industrial Park II, Binh Duong Industry-Service-Urban Complex, Ben Cat District Binh Duong Province, Vietnam  21481, Unit 15, 8th Street East Sonoma, CA 95476  1F 2-2-16 Higashiobase, Higasji Nariku, Osaka city, Osaka, Japan  Unit 4, 1A Bessemer Street, Blacktown, Australia  Unit 7, 415-443 West Botany Street, Rockdale, NSW 2216  Carl-Zeiss-Str.3-5, Garching b. Munchen Germany 85748  269 Fleming Road, Meadowvale, Joahnnesburg, | Tennessee  Lot 2, Cidra Industrial Subdivision, Cidra, Puerto Rico  North Gold Industrial Park, 104 North Gold Drive, Robbinsville, NJ  One Lasley Avenue, Wilkes-Barre, Pennsylvania 18706  RD 102, KM 3.2, Calle B, El Retiro Industrial Park, San German, Puerto Rico 00683  Watson Land Co., 2250 East 220th Street, Building 220 Carson CA  No.8 VSIPII, Street No.6, Vietnam Singapore Industrial Park II, Binh Duong Industry-Service-Urban Complex, Ben Cat District Binh Duong Province, Vietnam  21481, Unit 15, 8th Street East Sonoma, CA 95476  A and B  1F 2-2-16 Higashiobase, Higasji Nariku, Osaka city, Osaka, Japan  Unit 4, 1A Bessemer Street, Blacktown, Australia  Unit 7, 415-443 West Botany Street, Rockdale, NSW 2216  Carl-Zeiss-Str.3-5, Garching b. Munchen Germany 85748  A and B  269 Fleming Road, Meadowvale, Joahnnesburg, |



| 253 | Carmelray Industrial Park, Laguna, Philippines                                         | A and B | None |
|-----|----------------------------------------------------------------------------------------|---------|------|
| 254 | Via Canova 40 42, Lainate, Milano Italy                                                | A and B | None |
| 255 | 650 West 67th Place, Schererville, IN 46375-<br>1390                                   | A and B | None |
| 256 | 29485 Highway 76 East, Clinton, SC 29325                                               | A and B | None |
| 257 | 685 Howard Street, Buffalo, NY 14206                                                   | A and B | None |
| 258 | 17700 Foltz Parkway, Strongsville, OH 44149                                            | A and B | None |
| 259 | 15939 Industrial Parkway, Cleveland, OH 44135                                          | A and B | None |
| 260 | 2845 Center Road, Brunswick, OH 44212                                                  | A and B | None |
| 261 | 11 Carrington Road, Castle Hill, NSW, Australia 2143                                   | A and B | None |
| 262 | Units 3 4, 16 Abraham St., Balcatta, Perth, Western Australia 6021                     | A and B | None |
| 263 | Avenue Panamericana Norte 5369, Santiago,<br>Chile (subtenant of Acrus-CCL)            | A and B | None |
| 264 | Via Honduras 15, Pomezia, Italy 00040                                                  | A and B | None |
| 265 | 5 6 The Switchback Gardner Road, Maidenhead,<br>Berkshire, UK SL6 7RF                  | A and B | None |
| 266 | Unit 20 London Road, Warth Park Way, Raunds,<br>Northamptonshire, UK NN9 6NY           | A and B | None |
| 267 | Todos Los Santos □7651 Parque Industrial Pacifico, Tijuana, Mexico                     | A and B | None |
| 268 | Av Michoacan 20, Col. Renovacion, Unit 3 Parque Industrial FINSA, Iztapalapa DF 09209, | A and B | None |



| Mexico                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 89 Cross Street, Holliston, MA 01746                                         | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1 Better Way, Chicopee, MA 01022                                             | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 175 Crossing Blvd., Suite 510, Framingham, MA 01702                          | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4100 Highway 45 North, Meridian, MS 39301                                    | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 50 Pointe Drive, Brea, CA 92821                                              | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 6987 Calle de Linea, Suite 101, Otay Mesa, CA<br>92154                       | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 309 SW 18th Street □1 □3, Bentonville, AR 72712                              | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rond - Point d'Ecully, 1, chemin Jean-Marie<br>Vainney, Ecully, France 69130 | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| First Floor, La Croix Blanche, Thiers, France 63300                          | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Miesbacher Strasse 5, Oberlaindern, Germany 83626                            | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Houten, De Bouw 107 - Netherlands                                            | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ul. Orna 20 61-671 Poznań We will be vacating before the end of the year     | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Equator II, Al. Jerozolimskie 96, 00-807<br>Warszawa Suite nr 1553 -         | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tegelv⊡gen 9, 232 54 ⊡karp, SE                                               | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| East Main Street Copeland Road, Clinton, SC                                  | A and B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                              | 89 Cross Street, Holliston, MA 01746  1 Better Way, Chicopee, MA 01022  175 Crossing Blvd., Suite 510, Framingham, MA 01702  4100 Highway 45 North, Meridian, MS 39301  50 Pointe Drive, Brea, CA 92821  6987 Calle de Linea, Suite 101, Otay Mesa, CA 92154  309 SW 18th Street 1 3, Bentonville, AR 72712  Rond - Point d'Ecully, 1, chemin Jean-Marie Vainney, Ecully, France 69130  First Floor, La Croix Blanche, Thiers, France 63300  Miesbacher Strasse 5, Oberlaindern, Germany 83626  Houten, De Bouw 107 - Netherlands  ul. Orna 20 61-671 Poznań We will be vacating before the end of the year  Equator II, Al. Jerozolimskie 96, 00-807 Warszawa Suite nr 1553 -  Tegelv gen 9, 232 54 karp, SE | 89 Cross Street, Holliston, MA 01746  1 Better Way, Chicopee, MA 01022  175 Crossing Blvd., Suite 510, Framingham, MA 01702  4100 Highway 45 North, Meridian, MS 39301  50 Pointe Drive, Brea, CA 92821  6987 Calle de Linea, Suite 101, Otay Mesa, CA 92154  309 SW 18th Street 1 3, Bentonville, AR 72712  Rond - Point d'Ecully, 1, chemin Jean-Marie Vainney, Ecully, France 69130  First Floor, La Croix Blanche, Thiers, France 63300  Miesbacher Strasse 5, Oberlaindern, Germany 83626  Houten, De Bouw 107 - Netherlands  ul. Orna 20 61-671 Poznań We will be vacating before the end of the year  Lequator II, Al. Jerozolimskie 96, 00-807 Warszawa Suite nr 1553 -  Tegelv gen 9, 232 54 karp, SE  A and B  A and B  Tegelv gen 9, 232 54 karp, SE  A and B |



|     | 29325                                                                                               |         |                   |
|-----|-----------------------------------------------------------------------------------------------------|---------|-------------------|
| 295 | Unit 4, 240 South Blair Street, Whitby Ontario L1N 0G3                                              | A and B | None              |
| 296 | 2700 Freedland Road, Hermitage, PA                                                                  | A and B | None              |
| 297 | Unit 6 7 St. Johns Way, Foster Rd., Ashford<br>Business Park, Sevington, Ashford, Kent, TN24<br>0SH | A and B | None              |
| 298 | Dow Value Park,Geb ude E45, 06258<br>Schkopau, Germany                                              | A and B | None              |
| 299 | Costa Rica 5379, B1667JUU - Pdo. de Malvinas<br>Argentinas Buenos Aires □ Argentina                 | A and B | None              |
| 300 | 92 Ark Road, Lumberton, NJ 08048                                                                    | A and B | None              |
| 301 | 4484 Mulhauser Road, Suite 200, Hamilton, OH                                                        | A       | February 28, 2014 |
| 302 | 390 Albany Road, Moorestown, NJ 08057                                                               | A and B | None              |
| 303 | 1938 Olney Avenue, Cherry, Hil, NJ 08003                                                            | A and B | None              |
| 305 | 3250 West Big Beaver Road, Suite 325 , Troy, MI 48084                                               | A and B | None              |
| 306 | Industriestrasse 19 8962 Bergdietikon,<br>Switzerland                                               | A and B | None              |
| 307 | Industriestrasse 23 25 8962 Bergdietikon,<br>Switzerland                                            | A and B | None              |
| 308 | 3 Forge Close, Little End Road, Eaton Socon, ST NEOTS, PE19 8TP. United Kingdom                     | Α       | November 4, 2014  |
| 309 | Room 402-3, Building 5 Lane 338 Tianshan                                                            | A and B | None              |



|     | Road Changning District Shanghai City                                                                                                                                                                                                                                                                                                         |         |                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| 310 | 105 Gordon Baker Road, Suite 500 Willowdale,<br>Ontario                                                                                                                                                                                                                                                                                       | A and B | None              |
| 311 | 327, Daehwa-ri, Seongnam-myeon, Dongnam-<br>gu, Cheonan City, South Korea                                                                                                                                                                                                                                                                     | А       | December 19, 2014 |
| 312 | 16800 US 401 Bypass, Laurinburg, NC 28352                                                                                                                                                                                                                                                                                                     | A and B | None              |
| 313 | 2220 Heinz Road, Iowa City, Iowa                                                                                                                                                                                                                                                                                                              | A and B | None              |
| 314 | Avenida das Industrias, 315 □ Area B □ Distrito Industrial □ CEP 13280-000 Vinhedo                                                                                                                                                                                                                                                            | A and B | None              |
| 315 | Valdemarshaab 11, 1., - DK 4600 K⊡ge                                                                                                                                                                                                                                                                                                          | A and B | None              |
| 316 | Karaağaç Mh. Yiğittürk Cd. No: 20/C<br>B□y□k ekmece, Istanbul                                                                                                                                                                                                                                                                                 | А       | February 1, 2015  |
| 317 | 28214 Beck Road, Wixom, Michigan 48393                                                                                                                                                                                                                                                                                                        | A and B | None              |
| 318 | Calla Juan Jose Torres Landa 40, Comunidad de San Jeronimo No 51, San Jose Iturbide, Guanajuato, Mexico CP 37980 (N - 231.99 Metros con comernog, S.A. de C.V.; S -en 3 lineas, 42.007, 223.90 Y 227.29 metros con camino; E □ 191.148 Metros con lineas de commission federal de electricidad, Y; W □ 304.55 Metros con Hermanos Ramos Soto) | A and B | None              |
| 319 | 520 East Railroad Street, Clinton, North Carolina 28328                                                                                                                                                                                                                                                                                       | A and B | None              |
| 320 | Moselweinstr, 34 32, 54249 Tritteneheim,<br>Germany                                                                                                                                                                                                                                                                                           | A and B | None              |
| 321 | 124 -150 Horizon Drive, Verona, Dane County, WI                                                                                                                                                                                                                                                                                               | A and B | None              |
| 323 | Clinton, South Carolina - Laurens Co. Tax Map                                                                                                                                                                                                                                                                                                 | A and B | None              |



| No.: 901-31-01-031, 901 E. Main St. |  |
|-------------------------------------|--|
| ,                                   |  |
|                                     |  |

- II. Solely with respect to the covered locations identified with a Retroactive Date, above, Section I., INSURING AGREEMENTS, Subsection A., NEW POLLUTION CONDITONS, of this Policy is hereby deleted in its entirety and replaced with the following:
  - A. NEW POLLUTION CONDITIONS (Coverage A.)

Claims remediation costs and associated regal defence expense in excess of the self-insured retention arising out of a pollution condition on, at, under, or migrating from a covered location provided the claim is first made, or the reported discovers such pollution condition during the policy period Any such discovery of a pollution condition must be reported to the Insurer, in writing during, the policy period Any such claim must be reported to the Insurer, in writing, during the policy period or any applicable extended reporting period

It is a condition precedent to coverage afforded pursuant to this Coverage **A.** that all pollution conditions first commence, in their entirety:

- 1. During the policy period; or,
- 2. If prior to the policy period, then on or after the Retroactive Date identified in the Schedule of Covered Locations attached to this Policy, if any.



## NON-OWNED DISPOSAL SITES COVERAGE (Blanket - New Waste and Historical Waste) ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 3                         |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| ACE INA Ins                       | of Insurance Company) <b>Urance</b> | ,                                              | 1                                            |

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The <code>insured</code> and the Insurer hereby agree to the following changes to this Policy:

- **I.** Section **V.**, **DEFINITIONS**, Subsection **F.**, of this Policy is hereby deleted in its entirety and replaced with the following:
  - F. "Covered location" means:
    - 1. Any location specifically identified in Item 9. of the Declarations to this Policy;
    - **2.** Any location that meets the prerequisites to coverage identified in Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any:
    - **3.** Any mon-owned disposal site provided that any coverage afforded with respect to such monowned disposal sites is limited to third-party claims pursuant to Subsection **D.**, above; and
    - **4.** Any other location specifically scheduled as a covered location by endorsement attached to this Policy, if any.
- II. Solely with respect to coverage for any mon-owned disposal sites pursuant to this Endorsement, Section V., **DEFINITIONS**, Subsections **D.** and **Z.**, of this Policy are hereby deleted in their entirety and replaced with the following:
  - **D.** "Claim" means the written assertion of a legal right received by the finsured from a third-party, including, but not limited to, a government action suits or other actions alleging responsibility or liability on the part of the finsured for bodily injury, property damage or remediation costs arising out of pollution conditions to which this insurance applies.
    - With respect to any coverage afforded with respect Inon-owned disposal sites; covered "claims" are limited to those made by or on behalf of third-parties for Ipollution conditions: allegedly attributable to a Inamed insured or Iforeign subsidiary waste that is: 1) generated at a Inon-owned disposal site; and 2) received at the Inon-owned disposal site or to the expiration date identified in Item 2.a. of the Declarations to this Policy.
  - Z. "Non-owned disposal site" means:
    - 1. Any disposal site or recycling facility located within Canada or the United States of America that has not at any time been owned or operated, in whole or in part, by any finsured or foreign subsidiary which receives, or has historically received, a finamed insured or foreign subsidiary waste for disposal; provided that such disposal site or recycling facility:
      - a. Was properly permitted and licensed pursuant to renvironmental laws to accept the remained insured refereign subsidiary wastes at the time of such disposal by all Federal, provincial, state or other administrative or regulatory bodies or agencies with applicable jurisdiction;
      - b. Was not owned or operated by any person, corporation or unincorporated association that was in bankruptcy at the time the mamed insured or of oreign subsidiary waste was received for disposal;
      - **c.** Has not, at any time prior to the inception date of this Policy, been identified on the United States EPA (CERCLA) National Priorities List, CERCLIS List or pursuant to any



- functional equivalent of those listings made by Federal, provincial, state or other administrative or regulatory bodies or agencies with applicable jurisdiction pursuant to environmental laws and
- **d.** Was not undergoing voluntary or regulatory-required remediation activities at the time the mamed insured sor foreign subsidiary waste was received for disposal; or
- **2.** Any disposal site or recycling facility specifically identified on a Schedule of Disposal Sites Endorsement attached to this Policy, if any.
- **III.** Section **VI.**, **EXCLUSIONS**, Subsection **P.**, **Non-Owned Disposal Sites**, of this Policy is hereby deleted in its entirety and replaced with the following:

## P. Disposal Sites

Claims
☐ remediation costs
☐ foreign loss
☐ remediation costs
☐ ownership loss
☐ foreign subsidiary loss
☐ or regal defence expenses
☐ arising out of or related to pollution conditions
☐ on, at, under or migrating from disposal sites or recycling facilities that are not pon-owned disposal sites
☐



## TRANSPORTATION COVERAGE ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                              |                                                | Endorsement Number 4                         |
|-----------------------------------|------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621         | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name of ACE INA Ins    | of Insurance Company) urance | 1                                              | 1                                            |

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

- **I.** Section **I., INSURING AGREEMENTS**, Subsection **A.**, NEW POLLUTION CONDITIONS, of this Policy is hereby deleted in its entirety and replaced with the following:
  - A. NEW POLLUTION CONDITIONS (Coverage A.)

Claims remediation costs and associated regal defence expenses in excess of the self-insured retention arising out of a pollution condition 1) on, at, under, or migrating from a covered location or 2) resulting from transportation provided the claim is first made or the resulting discovers such pollution condition during the policy period. Any such discovery of a pollution condition must be reported to the Insurer in writing during the policy period. Any such claim must be reported to the Insurer, in writing, during the policy period or any applicable extended reporting period.

It is a condition precedent to coverage afforded pursuant to this Coverage **A.** that all pollution conditions first commence, in their entirety, during the policy period

- **II.** Section **V.**, **DEFINITIONS**, Subsection **E.**, of this Policy is hereby deleted in its entirety and replaced with the following:
  - **E.** "Transportation" means the movement of the <code>insuredisc</code> waste or products by automobile, aircraft, watercraft, railcar or other conveyance beyond the boundaries of a <code>covered</code> location by an <code>insuredc</code> or foreign subsidiary, or by a person or entity, other than an <code>insuredcore</code> or <code>foreign</code> subsidiary engaged in the business of transporting property for hire, until such time as the waste or product is unloaded from an automobile, aircraft, watercraft, railcar or other conveyance.
- **III.** Section **VI.**, **EXCLUSIONS**, Subsection **R.**, **Vehicles**, of this Policy is hereby deleted in its entirety and replaced with the following:

#### R. Vehicles

Claims ☐ remediation costs ☐ foreign loss ☐ rownership loss ☐ foreign subsidiary loss ☐ and ☐ legal defence expenses ☐ arising out of or related to ☐ pollution conditions ☐ resulting from the use, maintenance or operation, including loading or unloading, of an automobile, aircraft, watercraft, railcar or other conveyance beyond the boundaries of a ☐ overed location ☐

This exclusion shall not apply to ☐transportation☐



## **UNDERGROUND STORAGE TANK COVERAGE (Blanket) ENDORSEMENT (GPPL)**

| Named Insured CCL Industries Inc. |                              |                                                | Endorsement Number 5                         |
|-----------------------------------|------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621         | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name of ACE INA Ins    | of Insurance Company) urance |                                                | •                                            |

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The tinsured and the Insurer hereby agree to the following changes to this Policy:

Section VI., EXCLUSIONS, Subsection Q., Underground Storage Tanks, of this Policy is hereby deleted in its entirety.



## **BUSINESS INTERRUPTION AND DELAY EXPENSE ENDORSEMENT (GPPL)**

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 6                         |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>Urance</b> |                                                | 1                                            |

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

Section I., INSURING AGREEMENTS, of this Policy is amended by addition of the following:

SUPPLEMENTAL COVERAGE BUSINESS INTERRUPTION

Actual business interruption loss incurred by an insured during a period of interruption in excess of the Deductible Period.

It is a condition precedent to coverage afforded pursuant to this Supplemental Coverage that a  $\blacksquare$  business interruption loss  $\blacksquare$ 

- 1. Be directly attributable to a covered pollution condition; and
- 2. Be reported to the Insurer, in writing, as soon as practicable, and during the policy period □
- II. The amount the Insurer shall pay for \( \text{Dusiness interruption loss\( \text{pursuant to this Supplemental Coverage is limited by the following Sublimit of Liability and Deductible Period:

Sublimit of Liability: \$25,000,000

Deductible Period: 3 days

The Sublimit of Liability identified above shall be the maximum amount the Insurer shall pay for all \( \text{Dusiness} \) interruption loss\( \text{arising} \) aut of all \( \text{Covered pollution conditions} \( \text{This Sublimit of Liability shall be subject to the Limits of Liability identified in the Declarations to this Policy. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit of Liability.

The Insurer shall have no obligation to pay any ibusiness interruption loss incurred during the Deductible Period.

III. Section V., DEFINITIONS, of this Policy is amended by addition of the following:

## "Business income" means:

- **1.** Net profit or loss, before income taxes, including rental income from tenants, that would have been realized had there been no business interruption:
- 2. The insured or foreign subsidiary continuing operating and payroll expense (excluding payroll expense of officers, executives, department managers and contract employees);
- 3. Costs incurred by the <code>linsured</code> or <code>foreign</code> subsidiary as rent for temporary premises when a portion of a <code>covered</code> location becomes untenantable due to a <code>covered</code> pollution condition and temporary premises are required to continue the <code>linsured</code> or <code>foreign</code> subsidiary <code>covered</code> pollution. Such rental costs cannot exceed the fair rental value of the untenantable portion of the <code>covered</code> location.

"Business interruption" means necessary partial or complete suspension of the ☐nsured ☐s☐ or foreign subsidiary ☐s☐operations at a ☐covered location☐arising from a ☐covered pollution condition☐



## "Business interruption loss" means:

- 1. Business income
- 2. Extra expense; and
- 3. Delay expense ...

"Covered pollution condition" means a pollution condition on, at or under a covered location for which coverage is otherwise afforded pursuant to this Policy pursuant to Coverages A. or B, only, for memediation costs resulting from the first-party discovery of such pollution condition. The coverage afforded pursuant to this Endorsement shall not apply to any business interruption loss arising from or related to any pollution conditions for which coverage for memediation costs resulting from the first-party discovery of such pollution conditions is excluded pursuant to this Policy.

"Delay expense" means for a covered location under development, where a covered pollution condition causes a delay in the completion or development, any of the following expenses incurred shall be afforded coverage:

- **1.** Additional interest on money the finsured or foreign subsidiary has borrowed to finance the construction, development, or remediation of a project at a covered location.
- 2. Additional realty taxes and other assessments;
- 3. Additional advertising or promotional expense;
- **4.** Additional expenses incurred resulting from the renegotiation of leases, including associated usual and customary legal representation expense; and
- 5. Additional engineering, architectural, and consulting fees.

"Extra expense" means costs incurred by the finsured due to a covered pollution condition that are necessary to avoid or mitigate any fousiness interruption. Such costs must be incurred to actually minimize the amount of foregone fousiness income that would otherwise be covered pursuant to this Endorsement.

"Period of interruption" means the length of time commencing with the date that operations are necessarily suspended at a covered location as a result of covered pollution conditions.

"Rental income" means the actual rental fees lost as a result of a ⊡suspension of a rented ⊡covered location.

"Suspension" means that part of or all of a rented ©overed location □ is rendered untenantable for the purposes identified to the Insurer at the inception of the Policy, due to ©overed pollution conditions □

- IV. The following Conditions and Limitations shall apply to any coverage afforded pursuant to this Endorsement:
  - **A.** If such \( \text{business} \) interruption \( \text{delays} \) the start of the \( \text{insured} \) insured \( \text{s} \) or \( \text{foreign} \) subsidiary \( \text{s} \) operations, then the \( \text{period} \) of interruption \( \text{shall} \) begin on the date the operations would have begun if the \( \text{covered} \) pollution condition \( \text{had} \) not resulted in \( \text{business} \) interruption \( \text{covered} \)
  - **B.** The period of interruption shall end on the date that the subject covered pollution condition has been remedied to the point at which the insured sor foreign subsidiary normal operations could reasonably be restored. Coverage shall not be afforded for any covered pollution condition in loss of business income as a result of unfavorable business conditions caused by the impact of the covered pollution condition.
  - C. If the Insurer and the ☐nsured ☐disagree on the amount of ☐business income ☐or any other amount that is or may be covered pursuant to this Endorsement, either may make written demand for an appraisal of the loss. In this event, each party shall select a competent and impartial appraiser. If necessary, the two appraisers shall select an umpire. If they cannot agree, either may request that selection be made by a judge of a court having jurisdiction. The appraisers shall state separately the amount of ☐business income ☐or any other amount. If they fail to agree to a resolution, they shall submit their



differences to the umpire. A decision agreed to by the appraisers, of the umpire, if necessary, shall be binding upon both parties. Each party shall:

- 1. Pay its chosen appraiser; and
- 2. Bear the other expenses of the appraisal and umpire equally.

If there is an appraisal, the Insurer shall still retain all of its rights pursuant to the Policy to deny all or a portion of the claim.

V. Section VI., EXCLUSIONS, of this Policy is hereby amended by addition of the following:

This insurance also does not apply to \(\text{\textit{b}}\)usiness interruption loss\(\text{\text{arising}}\) out of or related to any of the individually excluded exposures identified above.



## AUTOMATIC ACQUISITION AND DUE DILIGENCE (Fungi) ENDORSEMENT (GPPL/PPL Port)

| Named Insured Enc CCL Industries Inc. 7 |                                     |                                                | Endorsement Number 7                         |
|-----------------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL                    | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins             | of Insurance Company) <b>Urance</b> |                                                | '                                            |

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The <code>insured</code> and the Insurer hereby agree to the following changes to this Policy:

I. Section IX., GENERAL CONDITIONS, of this Policy is hereby amended by addition of the following:

## **Automatic Acquisition and Due Diligence**

- 1. It is understood and agreed that, for an additional premium amount, any property acquired or leased by a mamed insured or foreign subsidiary during the policy period shall be added to the Policy as a covered location upon the closing date of such acquisition or the effective date of such lease, respectively; provided that the Insurer receives written notice of the property acquisition or lease within ninety (90) days of such closing or lease effective date, and the mamed insured or foreign subsidiary completes the following environmental due diligence assessment of the property prior to such acquisition or lease:
  - **a.** The mamed insured or foreign subsidiary commissions and receives:
    - 1) A Phase I Environmental Site Assessment report (or its functional equivalent with respect to any property acquired or leased in a jurisdiction outside of Canada) on the property that is performed by a qualified environmental consultant in accordance with CSA Z768-01 (as subsequently revised); and
    - 2) A Baseline Survey Process Report in accordance with the ASTM Standard Guide for Readily Observable Mold and Conditions Conducive to Mold in Commercial Buildings: Baseline Survey Process in effect as of the inception of this Policy; or
  - **b.** The mamed insured or foreign subsidiary receives:
    - 1) A Phase I Environmental Site Assessment report (or its functional equivalent with respect to any property acquired or leased in a jurisdiction outside of Canada) on the property that has been conducted by a qualified environmental consultant for a thirdparty, provided that the assessment and related report are prepared in accordance with CSA Z768-01 (as subsequently revised); and
    - 2) A Baseline Survey Process Report on the property that has been conducted by a qualified environmental consultant for a third-party, provided that the assessment and related report are prepared in accordance with the ASTM Standard Guide for Readily Observable Mold and Conditions Conducive to Mold in Commercial Buildings: Baseline Survey Process in effect as of the inception of this Policy,

and that the consultant responsible for the reports has provided the mamed insured or foreign subsidiary with written confirmation that the mamed insured or foreign subsidiary as applicable, is entitled to rely on the conclusions of the reports as if the assessment had been performed on its behalf.

2. If the Phase I Environmental Site Assessment does not identify any Recognized Environmental Conditions, as defined by CSA Z768-01 (as subsequently revised) (hereinafter RECs), and the Baseline Survey Process Report does not identify fungi legionella pneumophila or conditions conducive to the growth of fungi or legionella pneumophila (hereinafter Conducive Conditions) the property shall automatically be added to the Policy as



- an additional  $\[ covered \]$  location  $\[ covered \]$  or the effective date of the  $\[ covered \]$  acquired the property or the effective date of the  $\[ covered \]$  date insured  $\[ covered \]$  or  $\[$
- 3. If the Phase I Environmental Site Assessment identifies any RECs, then, before the property may be added to the Policy as a covered location the mamed insured or foreign subsidiary must complete a Phase II Environmental Site Assessment (or its functional equivalent with respect to any property acquired or leased outside of Canada) in accordance with CSA Z769-00 (as subsequently revised). Thereafter, the Insurer shall have thirty (30) days to review and approve the Phase II Environmental Assessment report. Said approval shall not be unreasonably withheld, but the Insurer reserves the right to limit coverage with respect to any RECs identified at the property, and any pollution conditions identified during further investigation of such RECs. Upon such approval, the Insurer shall provide a written endorsement to the first named insured confirming the effective date that the property has been added to the Policy as an additional covered location and describing the extent of the coverage being afforded with respect to the RECs and associated pollution conditions identified at the property.
- 4. If the Baseline Survey Process Report identifies flungi ☐ legionella pneumophila or Conducive Conditions, then, before coverage may be afforded for any ☐ pollution conditions ☐ involving the presence of flungi ☐ legionella penumophila or other microbial-related conditions arising out of or related to Conducive Conditions, the ☐ mamed insured ☐ or ☐ foreign subsidiary ☐ must complete additional assessment or remediation activities to address such ☐ flungi ☐ legionella pneumophila or Conducive Conditions. Thereafter, the Insurer shall have thirty (30) days to review and approve the results of the additional assessment and or remediation activities. Said approval shall not be unreasonably withheld, but the Insurer reserves the right to limit coverage with respect to any ☐ flungi ☐ legionella pneumophila or Conducive Conditions identified at the property. Upon such approval, the Insurer shall provide a written endorsement to the ☐ first named insured ☐ confirming the effective date and extent of the coverage being afforded with respect to the ☐ flungi ☐ legionella pneumophila or Conducive Conditions identified at the property.
- **5.** Additional premium for covered locations added to this Policy pursuant to Paragraphs **1.** though **4.**, above, shall be calculated on a *pro rata* basis using the following rates:

## **Additional Premium Schedule**

| Acquired Property Type | Additional Premium |
|------------------------|--------------------|
| Industrial Sites       |                    |
| Commercial             |                    |
| Warehouses             |                    |
| Offices                |                    |

In the event a property of a type not described in the Additional Premium Schedule, above, is acquired or leased by a mamed insured or foreign subsidiary the terms and conditions of this Subsection shall not apply.



## FUNGI AND LEGIONELLA COVERAGE (Sublimit) ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc.                       |                      |                                                | Endorsement Number 8                         |  |  |
|---------------------------------------------------------|----------------------|------------------------------------------------|----------------------------------------------|--|--|
| Policy Symbol<br>EIL                                    | Policy Number 333621 | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |  |  |
| Issued By (Name of Insurance Company) ACE INA Insurance |                      |                                                |                                              |  |  |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The <code>insured</code> and the Insurer hereby agree to the following changes to this Policy:

| \$250,000 shall be the Aggregate Sublimit of Liability applicable to any coverage pursuant to this Policy for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| claims, remediation costs, and associated regal defence expense arising out of or related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to related to relat |
| legionella pneumophila. Therefore, this Aggregate Sublimit of Liability shall be the maximum amount the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Insurer shall pay for all of the exposures specifically indicated below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ⊠ remergency response costs: *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| $\square$   | Terriergency response costs    |
|-------------|--------------------------------|
| $\boxtimes$ | □business interruption loss□ * |
| $\boxtimes$ | diminution in value; *         |
| $\boxtimes$ | rental income; *               |
| $\boxtimes$ | catastrophe management costs   |
| $\boxtimes$ | remediation costs;             |
|             |                                |

\*to the extent applicable due to such Supplemental Coverage being added to this Policy by endorsement hereto.

and associated degal defence expense, foreign loss, ownership loss or foreign subsidiary loss, arising out of pollution conditions resulting from the presence of fungior legionella pneumophila to which this Policy applies. This Aggregate Sublimit of Liability shall be subject to the Limits of Liability identified in the Declarations to this Policy. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit of Liability.



# SCHEDULE OF NAMED INSUREDS (Broad – Majority Owned Chain) ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 9                         |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>urance</b> |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

- I. The persons or entities within the scope of the description contained in the Schedule of Named Insureds, below, are named insureds pursuant to this Policy, but solely to the extent that such person or entity is domiciled or its principle place of business is located in Canada or another jurisdiction where the Insurer is either licensed or legally permitted to provide insurance without a license.
- II. In the event that any person or entity inadvertently identified within the scope of the description contained in the Schedule of Named Insureds, below, is domiciled or its principle place of business is located in a jurisdiction where the Insurer is not licensed and may not provide insurance without a license, such person or entity shall not be a mamed insured pursuant to this Policy. Instead, the Insurer agrees to indemnify the relevant mamed insured for its ownership interest in, or amounts that the relevant mamed insured represents and warrants that it has a contractual or other legal obligation to: 1) indemnify such person or entity for which they or it, respectively, have an underlying legal obligation to pay for bodily injury property damage or memediation costs including any associated legal defence expense arising out of a pollution condition, at, under or migrating from a covered location of memediation costs including any associated legal defence expense arising out of a pollution condition, at, under or migrating from a covered location, consistent with the indemnity coverage afforded to relevant mamed insureds with respect to foreign subsidiaries pursuant to Section I., INSURING AGREEMENTS, Subsection C., FOREIGN POLLUTION CONDITIONS, of this Policy.

#### **Schedule of Named Insureds**

- 1. All corporations, limited partnerships, limited liability partnerships, limited liability companies or other business entities or associations, other than joint ventures and general partnerships, as now or may hereafter exist during the policy period in which the first named insured itself, or through a direct chain of underlying majority-owned operating subsidiary corporations, limited partnerships, limited liability partnerships, or limited liability companies, maintains at least a fifty percent (50 ) ownership interest (hereinafter Majority-Owned Affiliates); and
- 2. All joint ventures or general partnerships, as now or may hereafter exist during the policy period to which the first named insured itself, or one of its Majority-Owned Affiliates, is a party and maintains at least a fifty percent (50) ownership interest, but only to the extent of the first named insured or Majority-Owned Affiliates egal responsibility for the liabilities of such joint venture or general partnership.



## NOTICE OF CANCELLATION (120 Days) ENDORSEMENT (GPPL/PPL Port)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 10                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>urance</b> |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

Section **IX.**, **GENERAL CONDITIONS**, Subsection **A.**, **Cancellation**, Paragraph **2.**, of this Policy is hereby deleted in its entirety and replaced with the following:

- 2. This Policy may be cancelled by the Insurer for the following reasons:
  - a. Non-payment of premium; or
  - b. Fraud or material misrepresentation on the part of any tinsured or tiforeign subsidiary. □

by mailing to the first named insured at the first named insured last known address, written notice stating when, not less than one hundred and twenty (120) days thereafter, fifteen (15) days if cancellation is for non-payment of any unpaid portion of the premium, such cancellation shall be effective. The mailing of notice shall be sufficient proof of notice. The effective date and hour of cancellation stated in the notice shall be the end of the policy period

Subparagraph **2.b.**, herein, shall apply only to that <code>insured</code> that engages in the fraud or misrepresentation. This exception shall not apply to any <code>insured</code> who is a parent corporation, subsidiary, employer of, or otherwise affiliated by ownership with, such <code>insured</code> including the relevant <code>mamed</code> insured <code>in</code> the event that the implicated entity is a <code>foreign</code> subsidiary.



## OTHER INSURANCE (Primary - Except) ENDORSEMENT (GPPL/PPL Port)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number                           |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| ACE INA Ins                       | of Insurance Company) <b>urance</b> |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

Section **IX.**, **GENERAL CONDITIONS**, Subsection **H.**, **Other Insurance**, of this Policy is hereby deleted in its entirety and replaced with the following:

#### H. Other Insurance

If other valid and collectible insurance is available to an <code>insured</code> or <code>foreign</code> subsidiary <code>covering</code> a loss also covered by this Policy, the insurance afforded by this Policy shall apply as primary insurance except for loss covered pursuant to **AS-9804045415**. Therefore, this Policy shall apply in excess of and shall not contribute with **AS-9804045415**.



## GLOBAL PPL INSURANCE PROGRAM (DIC/DIL) ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 12                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| ACE INA Ins                       | of Insurance Company) <b>Urance</b> |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

I. Section II., LIMITS OF LIABILITY AND SELF-INSURED RETENTION, of the Policy is hereby amended by addition of the following:

#### **Global Premises Pollution Liability Program Limits**

- 1. Notwithstanding any terms or conditions of this Policy which might be construed otherwise, the maximum aggregate limit of liability for: 1) this Policy; and 2) any docal admitted policy issued outside of Canada, to an dinsured or foreign subsidiary as part of the first named insured Global Premises Pollution Liability Insurance Program, combined, shall be the Total Program Policy Aggregate Limit of Liability identified in Item 5. of the Declarations of this Policy (hereinafter Total Program Policy Aggregate).
- 2. The *Total Program Policy Aggregate* is the most that shall be paid pursuant to this Policy <u>and</u> any <u>local admitted policy</u> <u>combined</u>, regardless of any aggregate, per occurrence, per claim, or per pollution condition, or any other limit of liability or limit of insurance, contained in any <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted policy</u> <u>local admitted poli</u>
- 3. Any ເclaims □ remediation costs □ foreign loss □ rewnership loss □ foreign subsidiary loss □ flegal defence expense □ damages, loss or any other amounts or payments of any kind or category that are paid pursuant to any flocal admitted policy □ shall reduce by that same amount the *Total Program Policy Aggregate*. All other limits of insurance or limits of liability pursuant to this Policy and any flocal admitted policy □ that include the term aggregate in their title or description are subject to and erode the *Total Program Policy Aggregate*.
- **4.** Nothing in this Subsection shall serve to increase the *Total Program Policy Aggregate*, or any applicable aggregate limit of liability or limit of insurance of any ⊡ocal admitted policy, which shall be the maximum liability of any affiliate or non-affiliated partner company pursuant to such ⊡ocal admitted policy.
- 5. Extra-Aggregate Payments Reimbursement Obligation

The <code>insuredsand</code> Insurer agree that any affiliate or non-affiliated partner company of the Insurer issuing a <code>ilocal</code> admitted policyashall have the right, at its sole discretion, to make payments in excess of the <code>Total</code> <code>Program</code> <code>Policy</code> <code>Aggregate</code>. In addition, the <code>first</code> named insuredacknowledge that any affiliate or non-affiliated partner company of the Insurer may also be compelled to make such a payment pursuant to the terms of any <code>ilocal</code> admitted policyalling in either event, the <code>first</code> named insuredagrees to reimburse the Insurer within thirty (30) days of the Insurers request for reimbursement of any payment it makes pursuant to this <code>Policy</code>, or any payment that is made pursuant to any <code>ilocal</code> admitted <code>policyafor</code> <code>claimsafor</code> <code>remediation</code> costsafor <code>foreign</code> <code>lossafor</code> <code>foreign</code> <code>subsidiary</code> <code>lossafor</code> <code>damages</code>, <code>lossafor</code> or any other amounts or payments of any kind or category, or any other amounts or payments of any type made by the Insurer or its affiliate or non-affiliated partner company issuing a <code>ilocal</code> admitted <code>policyafor</code> <code>after</code> the <code>Total</code> <code>Program</code> <code>Policy</code> <code>Aggregate</code> has been exhausted.

II. Section V., **DEFINITIONS**, of this Policy is hereby amended by addition of the following:



"Local admitted policy" means an insurance policy issued in a particular foreign jurisdiction by an insurance company that is licensed and or otherwise permitted to underwrite insurance in that country, and which policy is part of a Global Premises Pollution Liability Insurance Program for which this Policy provides coverage on a difference in conditions and or difference in limits basis exclusively to mamed insureds provided that such policy is identified on the Global PPL Insurance Program Schedule Endorsement attached to this Policy.

**III.** Section **IX., GENERAL CONDITIONDS**, Subsection **H., Other Insurance**, of this Policy is hereby deleted in its entirety and replaced with the following:

#### H. Other Insurance

#### Coverages A., and B.

If other valid and collectible insurance is available to an <code>insured</code>covering <code>claims</code>, <code>iremediation</code> costs <code>or</code> associated <code>degal</code> defence expense <code>also</code> covered by this Policy, other than a policy that is specifically written to apply in excess of this Policy, the insurance afforded by this Policy shall apply in excess of and shall not contribute with such other insurance.

#### Coverage C.

#### 1. Primary Insurance

- a. This Policy is primary when: 1) the terms and conditions of any other insurance, including any <code>local</code> admitted policy <code>do</code> not apply to cover <code>foreign</code> loss <code>downership</code> loss <code>downership</code> or <code>foreign</code> subsidiary loss <code>local</code> that is covered by this Policy; or 2) when there is no remaining valid and collectible other insurance, including any <code>local</code> admitted policy <code>for</code> <code>foreign</code> loss <code>downership</code> los
- **b.** If this Policy is determined to be primary, the Insurers obligations are not affected unless any other applicable, unaffiliated insurance is also determined to be primary. In that event, the Insurer shall share with any insurer underwriting that other unaffiliated insurance by the method described in Paragraph 3., below.

#### 2. Excess Insurance

This Policy is excess over any other valid and collectible insurance, including any <code>flocal</code> admitted policy which covers <code>floreign loss</code> <code>flownership loss</code> <code>floreign subsidiary loss</code> <code>that</code> is also covered by this Policy.

When this Policy is excess over other insurance, including any <code>docal</code> admitted policy the Insurer shall pay only its share of the amount of the <code>foreign loss</code> <code>ownership loss</code> or <code>foreign subsidiary loss</code> if any, that exceeds the sum of:

- a. The total amount that all such other insurance, including any local admitted policy would pay for the foreign loss ownership loss or foreign subsidiary loss in the absence of this insurance; and
- **b.** The total of all deductible and or self-insured amounts pursuant to all such other insurance, including any docal admitted policy □

#### 3. Method of Sharing

If all of the other unaffiliated insurance permits contribution by equal shares, the Insurer shall follow this method also. Pursuant to this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the foreign loss or foreign subsidiary loss remains, whichever comes first.

If any of the other unaffiliated insurance does not permit contribution by equal shares, the Insurer shall contribute by limits. Pursuant to this method, each insurer share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

#### Affiliate Financial Impairment



Notwithstanding anything in the foregoing that might be construed to the contrary, in the event a docal admitted policy is not valid or collectible because of bankruptcy, insolvency, refusal or inability to pay of any affiliated insurer or network insurance partner pursuant to any docally admitted policy the Insurer will indemnify the relevant mamed insured pursuant to Coverage C. of this Policy on a primary basis, subject to the specific terms and conditions of this Policy. However, the Insurer does not assume any obligation pursuant to such docal admitted policy and the relevant foreign subsidiary and or mamed insured shall assign the Insurer its rights to any available proceeds pursuant to such docal admitted policy.



## GLOBAL PPL INSURANCE PROGRAM SCHEDULE ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number                           |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>Urance</b> |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and Insurer agree that the following policies are each a flocal admitted policy within the purview of this Policy:

InsurerPolicy Number1. Illinois Union Insurance CompanyG24876871 004



## SCHEDULE OF FOREIGN SUBSIDIARIES ENDORSEMENT (GPPL/PPL Port)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 14                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>urance</b> | 1                                              | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The ⊡nsureds and the Insurer hereby agree that the entities identified below constitute ☐foreign subsidiaries as that phrase is used within this Policy:

#### Schedule of Foreign Subsidiaries

- 1. CCL Label do Brasil S A (Vinhedo, Criciuma)
- 2. CCL Industries Corporation (Delaware)
- 3. CCL de Mexico, S.A. de C.V. (Mexico)
- 4. CCL Container, S.A. de C.V. (Mexico)
- **5.** CCL Harrisonburg, Inc. (Virginia)
- **6.** CCL Container (Hermitage), Inc. (Delaware)
- **7.** CCL Container Corporation (Delaware)
- **8.** CCL Tube, Inc. (Formerly CCL Plastic Packaging, Inc. (Delaware)
- **9.** CCL Label, Inc.(Michigan)
- **10.** CCL Tube (Wilkes-Barre), Inc.
- **11.** CCL Label Portland, Inc. (Oregon)
- 12. CCL Label Sioux Falls, Inc. (South Dakota)
- 13. CCL Insertco, LLC (Maryland)
- **14.** CCL Insertco de Puerto Rico, Inc. (Delaware)
- 15. Etiquetas CCL S.A. de C.V. (Mexico)
- **16.** Inprint Extended text Labels, Inc. (Missouri)
- **17.** CCL Label Services, S.A. de C.V. (Mexico)
- 18. CCL Label de Puerto Rico, Inc. (Puerto Rico)
- **19.** CCL Label (St. Louis), Inc. (formerly Inprint Systems, Inc.
- 20. Moss printing, Inc. (Illinois)
- 21. CCL International Inc.
- 22. CCL Industries (U.K.) Limited
- 23. CCL Label GMBH (Hohenems) Austria
- 24. CCL Label Limited (U.K.)
- 25. CCL Label (Rhyl) Limited (Rhyl England)



- 26. Dolphin Limited (U.K.)
- 27. CCL Label (Avelin) S.A.S. (Lille, France)
- 28. CCL Label (France) S.A.S. (Bondy, France)
- 29. CCL Package Label S.N.C. (Chilly Mazarin, France)
- 30. CCL Inmould Label S.A.S. (Perigueux, France)
- 31. CCL Label AB (Sweden)
- 32. CCL Label OY (Finland)
- 33. CCL Label Sp z.o.o. (Poland)
- **34.** Inprint Systems Limited (U.K.)
- **35.** Haventrail Limited (U.K.)
- 36. CCL Investments Limited (U.K.)
- 37. CCL Label (Ashford Limited (U.K.)
- 38. Inprint Benelux Holding BV (Holland)
- **39.** Enterprise Finishing Systems Ltd. (UK.)
- 40. Ditchling and Commercial Holdings Ltd. (UK.)
- 41. Inprint (Pharmaceutical) Ltd. (U.K.)
- 42. Ditchling Press Ltd. (Burgess Hill, U.K.)
- **43.** CCL Label S.r.I. (Millan, Italy)
- 44. CCL Label (Oss) BV (Oss, Holland)
- **45.** Inprint Benelux Vastgoed BV (Holland)
- 46. Witsiers Offset BV (Holland)
- 47. Witsiers Labels BV (Holland)
- **48.** Witsiers Digital print Providers BV (Holland)
- 49. Syrinx ApS (Denmark)
- **50.** Cyclone Holdings Hungary Ltd. (Hungary)
- **51.** Syrinx Holding Germany GmbH (Germany)
- **52.** Steinbeis Gewerbeground GmbH (Germany)
- **53.** CCL Label GmbH (Holzkirchen, Germany)
- **54.** CCL Label Meerane GmbH (Meerane, Germany)
- **55.** CCL Design GmbH (Solingen, Germany)
- 56. FUNCINA GmbH (Germany)
- 57. CCL Label India Private Limited (India)
- **58.** CCL Label Vietnam Company Limited (Vietnam)
- **59.** CCL Label (Thai) Ltd. (Thailand)
- 60. CCL Label (Guangzhou) Co., Ltd. (China)
- 61. CCL Label (Hefei) Co., Ltd. (China)



- 62. Shi-Shi-Eru Japan Kabushiki Gaisha (Japan)
- 63. CCL Label SA (Pty) Ltd. (South Africa)
- **64.** Syrinx Australia Pty. Ltd. (Australia)
- **65.** Syrinx Cyprus Hodings Limited (Cyprus)
- 66. Clear Image Labels Pty. Ltd. (Australia)
- 67. OOO CCL-Kontur (Russia)

Notwithstanding the Insurers agreement to specifically identify the entities, above, on this Schedule of Foreign Subsidiaries, the finsureds and the Insurer agree that such entities are not finsureds within the meaning of this Policy and that they have no independent legal rights to any payment or indemnification pursuant to any of the Coverages afforded pursuant to this Policy.



## PREMIUM EARN-OUT (Staggered – Multiple Years) ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 15                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>Urance</b> |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

Section **IX., GENERAL CONDITIONS**, Subsection **A., Cancellation**, Paragraph **3.**, of this Policy is hereby deleted in its entirety and replaced with the following:

3. In the event of cancellation, **Twenty-five** percent (25 ) of the premium identified in Item 6. of the Declarations shall be minimum earned upon the inception date identified in Item 2.a. of the Declarations. Thereafter, an additional **Thirty-three** percent (33 ) of the premium shall be deemed earned by the Insurer on a *pro rata* basis over the first year of the policy period Thereafter, the remaining unearned premium shall be deemed earned by the Insurer on a *pro rata* basis over **Two Years**. Any unearned premium amounts due the first named insured upon cancellation of this Policy during the policy period if any, shall be calculated on a *pro rata* basis and refunded within thirty (30) days of the effective date of such cancellation.



## FIRST-PARTY PROPERTY VALUE DIMINUTION COVERAGE ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 16                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol <b>EIL</b>          | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>Urance</b> |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

I. Section I., INSURING AGREEMENTS, of this Policy is hereby amended by addition of the following:

#### SUPPLEMENTAL COVERAGE

Actual diminution in value incurred by an insured in excess of the self-insured retention arising out of a covered pollution condition

It is a condition precedent to coverage afforded pursuant to this Supplemental Coverage that all  $\square$ diminution in value  $\square$  be reported to the Insurer, in writing, as soon as practicable, and during the  $\square$ policy period  $\square$ 

II. The amount the Insurer shall pay for diminution in value pursuant to this Supplemental Coverage is limited by the following Aggregate Sublimit of Liability:

#### Aggregate Sublimit of Liability \$1,000,000

The Aggregate Sublimit of Liability identified above shall be the maximum amount the Insurer shall pay for all diminution in value arising out of all pollution conditions otherwise covered pursuant to this Policy. This Aggregate Sublimit of Liability shall be subject to the Limits of Liability identified in the Declarations to this Policy. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit of Liability.

- **III.** Section **V.**, **DEFINITIONS**, of this Policy is hereby amended by addition of the following:
  - "Covered pollution condition" means a pollution condition on, at or under a covered location for which coverage is otherwise afforded pursuant to this Policy pursuant to Coverages A. or B, only, for pemediation costs resulting from the first-party discovery of such pollution condition. The coverage afforded pursuant to this Endorsement shall not apply to any pollution in value arising out of or related to any pollution conditions for which coverage for pemediation costs resulting from the first-party discovery of such pollution conditions is excluded pursuant to this Policy.
  - "Diminution in value" means the decrease in fair market value of a covered location as measured by either:
  - 1. An amount developed in a final adjudication by a tax court of competent jurisdiction; or
  - **2.** By generally accepted property appraisal methods, including, but not limited to mortgage-equity analysis or sales comparison methods.
- IV. If the Insurer and the <code>insureddisagree</code> on the amount of <code>idiminution</code> in valuedthat is or may be covered pursuant to this endorsement, either may make written demand for an appraisal of such <code>idiminution</code> in valued In that event, each party shall select a competent and impartial appraiser. If necessary, the two appraisers shall select an umpire. If the appraisers cannot agree, either may request that the umpire selection be made by a judge of a court having jurisdiction over the matter. The appraisers shall state separately the amount of <code>idiminution</code> in valued If the appraisers fail to agree to a resolution, they shall submit their differences to the umpire. A decision agreed to by the appraisers, of the umpire, if necessary, shall be binding upon all parties to this Policy. Each party shall:
  - 1. Pay its chosen appraiser; and



2. Bear the other expenses of the appraisal and umpire equally.

If there is an appraisal, the Insurer shall still retain all of its rights pursuant to this Policy to deny all or a portion of any  $\Box$ laim  $\Box$ 

V. Section VI., EXCLUSIONS, of this Policy is hereby amended by addition of the following:

This insurance also does not apply to diminution in value arising out of or related to any of the individually excluded exposures identified above.



# JURISDICTION AND VENUE/CHOICE OF LAW Amendatory (Deletion) ENDORSEMENT (PPL III/GPPL/PPL Port)

| Named Insured CCL Industries Inc.                       |                         |                                                | Endorsement Number 17                        |  |
|---------------------------------------------------------|-------------------------|------------------------------------------------|----------------------------------------------|--|
| Policy Symbol<br>EIL                                    | Policy Number<br>333621 | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |  |
| Issued By (Name of Insurance Company) ACE INA Insurance |                         |                                                |                                              |  |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

Section IX., GENERAL CONDITIONS, Subsections I., Jurisdiction and Venue, and J., Choice of Law, are hereby deleted in their entirety.



## WAIVER OF SUBROGATION ENDORSEMENT (GPPL/PPL Port)

| Named Insured CCL Industries Inc.                                                 |                                     |  | Endorsement Number 18                        |
|-----------------------------------------------------------------------------------|-------------------------------------|--|----------------------------------------------|
| Policy Symbol Policy Number 333621 Policy Period March 31, 2015 to March 31, 2018 |                                     |  | Effective Date of Endorsement March 31, 2015 |
| ACE INA Ins                                                                       | of Insurance Company) <b>Urance</b> |  |                                              |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

Section **IX.**, **GENERAL CONDITIONS**, Subsection **E.**, **Subrogation**, of this Policy is hereby deleted in its entirety and replaced with the following:

### E. Subrogation

In the event of any payment pursuant to this Policy by the Insurer, the Insurer shall be subrogated to all of the rights of recovery against any person or organization, and the finsured shall, and shall cause all foreign subsidiaries to, execute and deliver instruments and papers and do whatever else is necessary to secure such rights. All finsureds and foreign subsidiaries shall do nothing to prejudice such rights. Any recovery as a result of subrogation proceedings arising pursuant to this Policy shall accrue first to the "insureds" to the extent of any payments in excess of the limit of coverage; then to the Insurer to the extent of its payment pursuant to the Policy; and then to the "insured" to the extent of the self-insured retention. Expenses incurred in such subrogation proceedings shall be apportioned among the interested parties in the recovery in the proportion that each interested party's share in the recovery bears to the total recovery.

Notwithstanding the foregoing, the Insurer hereby waives its rights to subrogate against the entities identified below:

1. Any entity or organization that the "Named Insured" has agreed, pursuant to a written contract, to waive its rights of subrogation, where such contract is executed prior to the relevant "claim" or 'remediation costs" to which this insurance applies



# SCHEDULE OF ADDITIONAL INSUREDS (Broad – With By Contract) ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                                 |                                                | Endorsement Number 19                        |
|-----------------------------------|---------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621            | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name of ACE INA Ins    | of Insurance Company)<br>Urance | •                                              | •                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

- I. The persons or entities within the scope of the description contained in the Schedule of Additional Insureds, below, are additional insureds pursuant to this Policy, but solely: 1) with respect to their vicarious liability arising out of any mamed insured or foreign subsidiary direct liability for a pollution condition on, at under or migrating from a covered location to which this insurance applies; and 2) to the extent that such person or entity is domiciled or its principle place of business is located in Canada or another jurisdiction where the Insurer is either licensed or legally permitted to provide insurance without a license.
- II. In the event that any person or entity inadvertently identified within the scope of the description contained in the Schedule of Additional Insureds, below, is domiciled or its principle place of business is located in a jurisdiction where the Insurer is not licensed and may not provide insurance without a license, such person or entity shall not be an additional insured pursuant to this Policy. Instead, the Insurer agrees to indemnify the relevant mamed insured for its ownership interest in, or amounts that the relevant mamed insured represents that it has a contractual or other legal obligation to: 1) indemnify such person or entity for which they or it, respectively, have an underlying legal obligation to pay for bodily injury property damage or memediation costs including any associated defence expense arising out of a pollution condition, at, under or migrating from a covered location octon, at, under or migrating from a covered location, at, under or migrating from a covered location, at, under or migrating from a covered location, consistent with the indemnity coverage afforded to relevant mamed insureds with respect to foreign subsidiaries pursuant to Section I., INSURING AGREEMENTS, Subsection C., FOREIGN POLLUTION CONDITIONS, of this Policy.

#### **Schedule of Additional Insureds**

- 1. All corporations, limited partnerships, limited liability partnerships, limited liability companies or other business entities or associations, other than joint ventures and general partnerships, as now or may hereinafter exist during the policy period in which a mamed insured maintains an ownership interest;
- 2. All joint ventures or general partnerships, as now or may hereafter exist during the policy period to which a mamed insured is a party, as now or may hereinafter exist during the policy period but only to the extent of the mamed insured plegal responsibility for the vicarious liability of such joint venture or general partnership; and
- 3. All corporations, limited partnerships, limited liability partnerships, limited liability companies or other business entities or associations, as now or may hereafter exist during the policy period but solely to the extent that: a) a mamed insured or foreign subsidiary is required by contractual agreement with such entity to provide such coverage; and b) the mamed insured contractual agreement with such entity was executed and effective prior to any related claim foreign claim or underlying matter substantiating a foreign subsidiary claim





## ADDITIONAL INSURED SCHEDULE (Mortgagee) II ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 20                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>urance</b> | 1                                              | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

I. The entity identified below shall be considered an additional insured pursuant to this Policy, but only with respect to its vicarious liability arising out pollution conditions on, at under or migrating from a covered location resulting from its Mortgagee interest in that covered location to this Policy, but only with respect to its vicarious liability arising out pollution conditions on, at under or migrating from a covered location to this Policy, but only with respect to its vicarious liability arising out pollution conditions on, at under or migrating from a covered location or migrating from its Mortgagee interest in that covered location or migrating from its Mortgagee interest in that covered location.

#### **Mortgagee**

- Any Canadian lender having financial interest in a covered location.
- **II.** Section **IX.**, **GENERAL CONDITIONS**, Subsection **L.**, **Changes and Assignment**, is hereby amended by addition of the following:

Notwithstanding the foregoing, assignment of this Policy to the Mortgagee identified in Paragraph I. of the Additional Insured (Mortgagee) Endorsement attached to this Policy shall automatically occur in the <code>@event</code> of default <code>upon</code> the <code>@event</code> of locations <code>by</code> the Mortgagee Insured. In the <code>@event</code> of default <code>the</code> Mortgagee Insured must notify the Insurer of such <code>@event</code> of default <code>in</code> writing, within fourteen (14) days of the date of the <code>@event</code> of default <code>Upon</code> receipt of such notice by the Insurer, the Insurer shall issue an endorsement assigning the Policy to the Mortgagee, such endorsement shall be effective as of the <code>@event</code> of default <code>Upon</code>

- III. In the event of assignment, as detailed in Paragraph II., above, all of the terms and conditions of this Policy shall apply to the Mortgagee as if such Mortgagee were the first named insured pursuant to this Policy.
- IV. Section V., **DEFINITIONS**, of this Policy is hereby amended by addition of the following:
  - "Event of default" means the legal event that triggers the Mortgagee's ability to exercise its legal right of foreclosure against the covered location □
- V. Section IX., GENERAL CONDITIONS, of this Policy, is hereby amended by addition of the following:

#### **Lender Liability**

The existence of any legal protection for the <code>linsured\_against</code> liability of any kind whatsoever in connection with <code>pollution</code> conditions <code>pollution</code> in limited to, the secured creditor exemption in Section 9601(20) of the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. Sec. 9601 *et seq.*, shall in no way affect the rights of the <code>linsured\_pursuant</code> to this Policy. Any failure of an <code>linsured\_to</code> qualify for such protection shall not, in and of itself, trigger Section <code>VI.</code>, <code>EXCLUSIONS</code>, Subsection <code>K.</code>, <code>Intentional Non-Compliance</code>, of this Policy or in any other way affect the rights of an <code>linsured\_pursuant</code> to this Policy.

#### VI. Foreign Mortgagees

In the event that any person or entity inadvertently identified as a Mortgagee in Section I. of this Endorsement, above, is domiciled or its principle place of business is located in a jurisdiction outside of Canada, such person or entity shall not be either an additional insured or mamed insured pursuant to this Policy. Instead, the Insurer agrees to indemnify the relevant mamed insured for amounts that the relevant mamed insured represents that it has a contractual or other legal obligation to: 1) indemnify such person or entity for which they or it, respectively.



have an underlying legal obligation to pay for <code>[bodily injury]</code> property damage or <code>[remediation costs]</code> including any associated <code>[legal defence expense]</code> arising out of a <code>[pollution condition]</code> on, at, under or migrating from a <code>[covered location]</code> or <code>[source insurance coverage for such person or entity for <code>[bodily injury]</code> property damage or <code>[remediation costs]</code> including any associated <code>[legal defence expense]</code> arising out of a <code>[pollution condition]</code> on, at, under or migrating from a <code>[covered location]</code> consistent with the indemnity coverage afforded to <code>[relevant insureds]</code> with <code>[respect to iforeign subsidiaries]</code> pursuant to <code>[section i]</code>. **INSURING AGREEMENTS**, Subsection <code>[section i]</code>. **INSURING**</code>



## BASIC EXTENDED REPORTING PERIOD (90 Days) ENDORSEMENT (GPPL/PPL Port)

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 21                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>Urance</b> |                                                | <u>'</u>                                     |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The <code>insured</code> and the Insurer hereby agree to the following changes to this Policy:

Section **VIII.**, **EXTENDED REPORTING PERIOD**, Subsections **C.** and **D.**, of this Policy are hereby deleted in their entirety and replaced with the following:

- **C.** Provided the first named insured has not purchased any other insurance to replace this Policy, the first named insured shall have a ninety (90) day basic extended reporting period without additional charge.
- D. Provided the first named insured has not purchased any other insurance to replace this Policy, the first named insured shall also be entitled to purchase a supplemental extended reporting period of up to thirty-three (33) months for not more than two hundred percent (200 ) of the full premium identified in Item 6. of the Declarations to this Policy, and any additional premiums resulting from coverage added during the policy period Such supplemental extended reporting period starts when the basic extended reporting period ends. The Insurer shall issue an endorsement providing a supplemental extended reporting period provided that the first named insured
  - 1. Makes a written request, to the address identified in Item 8.b. of the Declarations to this Policy, for such endorsement which the Insurer receives prior to the expiration of the policy period □ and
  - 2. Pays the additional premium when due. If that additional premium is paid when due, the supplemental Extended reporting period may not be cancelled, provided that all other terms and conditions of the Policy are met.



III.

hereto.

#### COVERED LOCATION AMENDATORY ENDORSEMENT

| Named Insured CCL Industries Inc.                       |                      |                                              | Endorsement Number 22 |
|---------------------------------------------------------|----------------------|----------------------------------------------|-----------------------|
| Policy Symbol<br>EIL                                    | Policy Number 333621 | Effective Date of Endorsement March 31, 2015 |                       |
| Issued By (Name of Insurance Company) ACE INA Insurance |                      |                                              |                       |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insureds and the Insurer hereby agree to the following changes to this Policy:

I. Section V. **Definitions**, subsection **F.** ©overed location is deleted in its entirety and replaced with the following:

#### "Covered Location" means:

- 1. Any location that meets the prerequisites to coverage identified in Automatic Acquisition and Due Diligence Endorsement attached to this Policy, if any.
- 2. Any location that was inadvertently omitted from the Statement of Values titled EIL Scheudle of Locations and dated 02 23 2015 and was owned, operated, managed or leased by the first named insured □or any mamed insured □upon the inception date identified in Item 2. of the Declarations to this Policy; and
- 3. Any other location specifically scheduled as a covered location by endorsement attached to this Policy, if any.
- II. Solely with respect to ©overed locations □identified in Item 1. 2. above, no coverage shall be afforded for □pollution conditions □that commenced, in whole or in part, prior to the inception date identified in Item 2. of the Declarations to this Policy.

| The ©overed locations identified in the Schedule of Covered Locations, below, shall be subject to an Aggregate Sublimit of Liability of \$1,000,000. Therefore, the most Insurer shall pay for all:  □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ☑ diminution in value; *                                                                                                                                                                                                                   |
| ☑ rental income; *                                                                                                                                                                                                                         |
| ☑ catastrophe management costs; *                                                                                                                                                                                                          |
| ☐ remergency response costs                                                                                                                                                                                                                |
| ☐ Iremediation costs ☐                                                                                                                                                                                                                     |
| ☐ property damage:                                                                                                                                                                                                                         |
| □ bodily injury □                                                                                                                                                                                                                          |
| *to the extent applicable due to such Supplemental Coverage being added to this Policy by endorsement                                                                                                                                      |

and any associated degal defense expensed arising out of pollution conditions on, at, under or migrating from the covered locations dentified below, shall be \$1,000,000. This Aggregate Sublimit of Liability shall be subject to the Limits of Liability identified in the Declarations to this Policy. Under no circumstance shall the Insurer be liable to pay any amount in excess of any applicable Limit of Liability.



## **Schedule of Covered Locations**

1. Any location that was inadvertently omitted from the Statement of Values titled EIL Scheudle of Locations and dated 02 23 2015 and was owned, operated, managed or leased by the first named insured □or any mamed insured □upon the inception date identified in Item 2. of the Declarations to this Policy.



## POLLUTION CONDITION AMENDATORY (Inclusion of Electromagnetic Fields) ENDORSEMENT (PPL Port)

| Named Insured Endorsement Number 23 |                                     |                                                | Endorsement Number 23                        |
|-------------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL                | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| ACE INA Ins                         | of Insurance Company) <b>urance</b> |                                                |                                              |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

Section **V., DEFINITIONS**, Subsection **W.**, of this Policy is hereby deleted in its entirety and replaced with the following:

#### W. "Pollution condition" means:

- 1. The presence of fungi or legionella pneumophila;
- 2. Illicit abandonment por
- 3. the discharge, dispersal, release, escape, migration or seepage of any solid, liquid, gaseous or thermal irritant, contaminant, or pollutant, including smoke, soot, vapors, fumes, acids, alkalis, chemicals, hazardous substances, hazardous materials, electromagnetic fields, or waste materials, on, in, into, or upon land and structures thereupon, the atmosphere, surface water, or groundwater.

For the purpose of this definition, waste materials includes, but is not limited to \( \text{low-level radioactive} \) waste \( \text{mixed waste} \) and medical, infectious and pathological waste.



#### RESPONSIBLE PERSON AMENDATORY ENDORSEMENT

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 24                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>Urance</b> |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

Section **V.**, **DEFINITIONS**, Subsection **CC.**,, of this Policy is hereby deleted in its entirety and replaced with the following following:

**CC.** "Responsible person" means any facility manager responsible for environmental affairs, control, or compliance at any individual covered location the Vice Present of Risk and Environmental Management of the first named insured and any officer or director of, or partner in, a mamed insured or foreign subsidiary ■



#### SIR PAYMENT RECOGNITION ENDORSEMENT

| Named Insured CCL Industries Inc. Endorsement Number 25 |                                     |                                                |                                              |
|---------------------------------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL                                    | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins                             | of Insurance Company) <b>Urance</b> |                                                |                                              |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insureds and the Insurer hereby agree to the following changes to this Policy:

- I. Section II., LIMITS OF LIABILITY AND SELF-INSURED RETENTION, Subsection A., of this Policy is hereby deleted in its entirety and replaced with the following:
  - A. It is expressly agreed that the Insurers obligation to pay for any covered claims. Itemediation costs foreign subsidiary loss or degal defence expense shall attach to the Insurer only after the first named insured shall have paid, or, in the event of a foreign subsidiary claim under Coverage C., have provided evidence to the Insurer that a mamed insured foreign subsidiary or other entity specifically identified on the SIR Payment Recognition Endorsement, has paid, the full amount of the self-insured retention. Under no circumstances shall the Insurer be liable to pay any amount within the self-insured retention. In the event that the first named insured cannot provide satisfactory evidence that a mamed insured foreign subsidiary or other entity specifically identified on the SIR Payment Recognition Endorsement, has paid the full amount of the self-insured retention with respect to any "pollution condition resulting in a foreign subsidiary claim under Coverage C. of this Policy, the first named insured shall remain responsible to pay the self-insured retention before the Insurers payment obligation under this Policy shall attach.

The tinsureds and the Insurer agree that payments made by <u>Waterman Insurance Inc.</u> under <u>Quota Share Reinsurance Agreement, April 09, 2009</u>. for any tile insured it is also covered under this Policy, will be credited against the tile insured retention that is applicable to said pollution conditions.



# PROPERTY DAMAGE AMENDATORY (Stigma) ENDORSEMENT

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 26                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>Urance</b> |                                                |                                              |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

Section **V.**, **DEFINITIONS**, Subsection **EE.**, of this Policy is hereby deleted in its entirety and replaced with the following following:

#### EE. "Property damage" means:

- **1.** Physical injury to, or destruction of, tangible property of a third-party, including all resulting loss of use of that property;
- 2. Loss of use of tangible property of a third-party, that is not physically injured or destroyed;
- **3.** Diminished value of tangible property of a third-party, including any diminution due to alleged stigma associated with a covered pollution condition; and,
- **4.** □Natural resource damages□
- 5. With respect to pollution conditions located within the European Union, biodiversity damage



## COVERAGE TERRITORY AMENDATORY (Deletion of People's Republic of China) ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc.                                                 |                              |  | Endorsement Number 27                        |
|-----------------------------------------------------------------------------------|------------------------------|--|----------------------------------------------|
| Policy Symbol Policy Number 333621 Policy Period March 31, 2015 to March 31, 2018 |                              |  | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name of ACE INA Ins                                                    | of Insurance Company) urance |  | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

Section IV., COVERAGE TERRITORY, of this Policy is deleted in its entirety and replaced with the following:

#### IV. COVERAGE TERRITORY

The coverage afforded pursuant to this Policy shall apply to pollution conditions worldwide, except for any pollution conditions within any of the former member states of the Union of Soviet Socialist Republics, including Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

Notwithstanding the foregoing, this Policy shall not afford coverage for any risk which would otherwise be in violation of the laws of Canada, including, but not limited to, economic or trade sanction laws or export control laws administered by the government of Canada.



## ASBESTOS, LEAD-BASED PAINT AND PUNITIVE DAMAGES (Sublimit- Reinsurance) **ENDORSEMENT (PPL III)**

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 28                        |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) <b>Urance</b> |                                                |                                              |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The finsured and the Insurer hereby agree to the following changes to this Policy:

|    | , ,                                                                                                                                                                                                                                                                                                                                                                  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I. | <b>\$25,000,000</b> shall be the Aggregate Sublimit of Liability for coverage afforded pursuant to this Policy, if any, for asbestos, asbestos-containing materials, lead-based paint and punitive damages. Therefore, this Aggregate Sublimit of Liability shall be the maximum amount the Insurer shall pay for all of the exposures specifically indicated below: |
|    | □ Emergency response costs       ↑                                                                                                                                                                                                                                                                                                                                   |
|    | □ business interruption loss     □ *                                                                                                                                                                                                                                                                                                                                 |
|    | ☑ diminution in value: *                                                                                                                                                                                                                                                                                                                                             |
|    | ☐ rental income; *                                                                                                                                                                                                                                                                                                                                                   |
|    |                                                                                                                                                                                                                                                                                                                                                                      |
|    | ☐ remediation costs ☐                                                                                                                                                                                                                                                                                                                                                |
|    | □ Claims □                                                                                                                                                                                                                                                                                                                                                           |
|    | *to the extent applicable due to such Supplemental Coverage being added to this Policy by endorsement hereto.                                                                                                                                                                                                                                                        |
|    | and associated degal defense expenses arising out of or related to asbestos, asbestos-containing materials, lead-based paint or punitive damages to which this insurance applies. This Aggregate Sublimit of Liability shall                                                                                                                                         |

be subject to the Limits of Liability identified in the Declarations to this Policy. Under no circumstance shall

II. Nothing in this Endorsement shall be construed to expand coverage beyond the explicit terms and conditions in this Policy.

the Insurer be liable to pay any amount in excess of any applicable Limit of Liability.



## PRIOR CLAIMS EXCLUSIONARY (Itemized) ENDORSEMENT (GPPL/PPL Port)

| Named Insured CCL Industr   | ies Inc.                     |                                                | Endorsement Number 29                        |
|-----------------------------|------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL        | Policy Number 333621         | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins | of Insurance Company) urance |                                                | 1                                            |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The ⊔insured and the Insurer hereby agree to the following changes to this Policy:

Section VI., EXCLUSIONS, of this Policy is hereby amended by addition of the following:

This Insurance also does not apply to:

#### **Prior Claims**

The claims foreign claims or underlying matters that might otherwise substantiate a foreign subsidiary claim (hereinafter Underlying Claims) (collectively hereinafter Identified Claims) specifically identified below, along with any current or subsequent claims foreign claims or Underlying Claims made in conjunction with such Identified Claims (e.g., counterclaims, cross-claims or third-party claims made as part of the Identified Claims, any associated appeals of the Identified Claims, any claims foreign claims or Underlying Claims ultimately consolidated with the Identified Claims, or any claims foreign claims or Underlying Claims involving different plaintiffs but the same collection of operative facts and or allegations contained in the Identified Claims), and any associated degal defence expense

Prior claims associated with Superfund Site in Clavet City, Kentucky



## **INSURED vs. INSURED AMENDATORY ENDORSEMENT**

| Named Insured CCL Industr   | ies Inc.                            |                                                | Endorsement Number 30                        |
|-----------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL        | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins | of Insurance Company) <b>urance</b> |                                                | <u> </u>                                     |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree to the following changes to this Policy:

**I.** Section **VI.**, **EXCLUSIONS**, Subsection **I.**, **Insured vs. Insured**, of this Policy is deleted in its entirety.



## SCHEDULE OF DISCLOSED DOCUMENTS ENDORSEMENT

| Named Insured CCL Industrie                             | es Inc.              | Endorsement Number 31            |                                              |  |
|---------------------------------------------------------|----------------------|----------------------------------|----------------------------------------------|--|
| Policy Symbol<br>EIL                                    | Policy Number 333621 | March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |  |
| Issued By (Name of Insurance Company) ACE INA Insurance |                      |                                  |                                              |  |

#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The insured and the Insurer hereby agree that the pollution condition(s) dentified within the documents listed in the Schedule of Disclosed Documents below have been disclosed to the Insurer prior to the inception of this policy, and shall be deemed discovered during the policy period

### SCHEDULE OF DISCLOSED DOCUMENTS

| Site Address                                    | CCL ID | Reports                                                                                                                                                                                                                        |
|-------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 810 North Main St.,<br>Harrisonburg, VA         | 82     | Work Plan, Limited Phase II, RFI, Focus Area of Concern, Groundwater Environmental Quality Management, Inc., Dec. 4, 2008                                                                                                      |
|                                                 |        | CAP RCRA Site Visit Report, Interpac (Harrisonburg) Inc. USEPA Region III, Dec. 13, 2006                                                                                                                                       |
|                                                 |        | Environmental Pollution and Liability Assessment AMEC, Sept. 30, 2002                                                                                                                                                          |
| 2300 4th Townsend, Chester, PA                  | 44     | Underground Storage Tank Closure Summary                                                                                                                                                                                       |
|                                                 |        | Harding Lawson Associates, Aug. 16, 1994                                                                                                                                                                                       |
| 2700 Freedland Road, Hermitage,<br>Pennsylvania |        | Phase I Environmental Site Assessment (ESA), RTI International Metals, 2700 Freedland Road, City of Hermitage, Mercer County, Hermitage, Pennsylvania, conducted by Compliance Management International (CMI), dated July 2013 |
| 5 Equinas de Tibas<br>San Jose, Costa Rica      | 140    | Environmental and Pollution Liability Assessment AMEC, Nov. 15, 2002                                                                                                                                                           |
| 9th Hawkings St.<br>Carrollton, KY              | 47     | Remedial Excavation Shield Environmental Associates Ltd., Jan. 15, 2004                                                                                                                                                        |
| 163 Robert St. E.<br>Penetanguishene, ON        | 40     | Agreed Statement of Facts, R. v. CCL Industries Inc.                                                                                                                                                                           |
|                                                 |        | Equipment Pit Removal and Confirmatory Soil Sampling Program Pinchin Environmental, Jul. 10, 2008                                                                                                                              |
|                                                 |        | Phase I ESA and Environmental Compliance Review AMEC, May 27, 2005                                                                                                                                                             |



| *                                                                          | ,   |                                                                                                       |
|----------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------|
| 200 Nov. Albany Dood, Magraphysis                                          |     | Phase I ESA, CRA, November 2011                                                                       |
| 390 New Albany Road, Moorestown<br>Township, Burlington County, New Jersey |     | Phase I ESA, 390 New Albany Road, Moorestown<br>Township, Burlington County, New Jersey, conducted by |
|                                                                            |     | PEM, dated December 2013                                                                              |
| 20 Ashton Ave.                                                             |     | Preliminary Assessment Report                                                                         |
| Swedesboro, NJ                                                             |     | AccuTech Environmental Services Inc., June 24, 2003                                                   |
|                                                                            |     | Semi-Annual (October 2002 through March 2003) RA                                                      |
|                                                                            |     | Progress Report                                                                                       |
|                                                                            |     | Environmental Compliance Inc., May 27, 2003                                                           |
|                                                                            |     | Environmental and Pollution Liability Assessment                                                      |
|                                                                            |     | AMEC, Sept. 30, 2002                                                                                  |
|                                                                            |     | Remediation in Progress Waiver, Waiver Application                                                    |
|                                                                            |     | dated July 3, 2003                                                                                    |
|                                                                            |     | NJDEP, July 25, 2003                                                                                  |
| 2617 Commerce Circle                                                       | 244 | Review of ARBCA RM-2 Evaluation                                                                       |
| Irondale, AL                                                               |     | ADEM, January 9, 2009                                                                                 |
|                                                                            |     | Groundwater Monitoring Report, August 2006                                                            |
|                                                                            |     | Cardinal Resources, November 2006                                                                     |
|                                                                            |     | RM-2 Evaluation                                                                                       |
|                                                                            |     | Cardinal Resources, August 2007                                                                       |
| 1209 West Bailey St.                                                       | 107 | Leaking Containment System                                                                            |
| Sioux Falls, SD                                                            |     | DENR, July 3, 2008                                                                                    |
|                                                                            |     |                                                                                                       |
|                                                                            |     | Addendum to Contract for Additional Spill Release                                                     |
|                                                                            |     | Assessment Geotek Engineer Testing Services Inc., July 18, 2008                                       |
|                                                                            |     | Geotek Engineer Testing Services Inc., July 10, 2000                                                  |
|                                                                            |     | E-mail - Soil Groundwater Lab Report 8 6                                                              |
|                                                                            |     | Elizabeth Mierzynski, Aug. 7, 2008                                                                    |
|                                                                            |     | E-mail - Solvent Release Corrective Action                                                            |
|                                                                            |     | Susan Snelgrove, Jan. 15, 2009                                                                        |
|                                                                            |     | Closure of DENR File Number 2008.121                                                                  |
|                                                                            |     | DENR, Sept. 26, 2008                                                                                  |
|                                                                            |     |                                                                                                       |
|                                                                            |     | Phase I ESA and Environmental Compliance Audit AMEC, July 1, 2004                                     |
|                                                                            |     | Phase I ESA, CRA, December 2010                                                                       |
|                                                                            |     | Phase I ESA - Amec - September 2014                                                                   |
| Foster Road<br>Ashford Business Park                                       | 191 | Phase I Environmental Site Assessment<br>AMEC, Sept. 12, 2005                                         |
| Ashford, Kent, UK                                                          |     | ΑινιΕΟ, Θερί. 12, 2000                                                                                |
| , , <del>, -</del>                                                         |     | Environmental Site Assessment Program - Operating                                                     |
|                                                                            |     | Facility Profile                                                                                      |
|                                                                            |     | CCL Industries, Jan. 13, 2009                                                                         |
|                                                                            |     | Environmental Sampling                                                                                |
|                                                                            |     | CRA, Feb. 15, 2008                                                                                    |
|                                                                            |     | Phase I ESA, CRA, December 2010                                                                       |



|                         |         | Phase I ESA - Amec - February 2014                                                  |
|-------------------------|---------|-------------------------------------------------------------------------------------|
| 285 Union Avenue        | 106     | Phase I Environmental Site Assessment Environmental                                 |
| Memphis, TN             |         | Compliance Review                                                                   |
|                         |         | AMEC, Sept. 13, 2005                                                                |
|                         |         | Asbestos Removal and Disposal at 285 Union                                          |
|                         |         | Memphis Wrecking Company, July 7, 2008                                              |
| Parcelle ZL66           | 206     | Diagnostic Initial de la Qualit des Sols                                            |
| ZA La Barogne           |         | Excipe France, Dec. 19, 2006                                                        |
| Moussy-Le-Neuf, France  |         | Phase I ESA, CRA, July 2011                                                         |
| 35 McLachlan Drive      | 36      | Phase I Environmental Site Assessment                                               |
| Etobicoke, ON           |         | CRA, Nov. 2007                                                                      |
|                         |         | Supplemental Phase II Environmental Assessment                                      |
|                         |         | Mantech Environmental Corporation, April 25, 1997                                   |
| 44200 Commiss Cold Cir. | 100     | Phase I ESA - CRA - November 2012                                                   |
| 11328 Sunrise Gold Cir. | 102     | Phase II Subsurface Soil Investigation                                              |
| Rancho Cordoba, CA      | - 04    | Fred C. Hart Associates, Aug. 25, 1989                                              |
| 3642 Muddy Creek Rd.    | 81      | Environmental Site Assessment Report                                                |
| Cincinnati, OH          |         | Weiss Associates, Oct. 17, 1995 Subsurface Environmental Investigation of CCL Label |
|                         |         | Inc.                                                                                |
|                         |         | ManTech Environmental Corporation, Oct. 29, 1996                                    |
| 1616 S. California Ave. | 96      | Environmental Site Assessment Report                                                |
| Monrovia, CA            | 90      | Weiss Associates, Oct. 26, 1995                                                     |
| Worllovia, OA           |         | Report on Subsurface Conditions                                                     |
|                         |         | CCL Label Inc., Apr. 29, 2003                                                       |
| 26 Watermain Ave.       | 14      | Site Specific Risk Assessment, Final Document                                       |
| East York, ON           |         | Barenco, August 2001                                                                |
|                         |         | Chronology of Environmental Site Restoration Program                                |
|                         |         | at 26 Waterman Site                                                                 |
|                         |         | CCL Industries, Feb. 2003                                                           |
|                         |         | Brownfield Environmental Site Registry                                              |
| 81 Hymus Blvd.          | 20      | Environmental Soil Characterisation                                                 |
| Pointe Claire, QC       |         | Gartner Lee Limited, Aug. 10, 2000                                                  |
|                         |         | Environmental Soil Characterisation Study                                           |
|                         |         | CCL Industries, June 18, 2001                                                       |
| 430 Steelcase Rd. E.    | 7       | Site Remediation                                                                    |
| Markham, ON             |         | Dillon, June 1991                                                                   |
| Arkwright Road          | 119-122 | Baseline Ground Quality Investigation                                               |
| Runcorn, UK             |         | ERM, June 1999                                                                      |
|                         |         | Investigation of Ground Quality in the Vicinity of a                                |
|                         |         | Wastewater Interceptor                                                              |
|                         |         | ERM, July 1999                                                                      |
|                         |         | Interceptor Tank Removal Report                                                     |
|                         |         | CCL Industries, February 2002                                                       |
| 78 Titan Road           | 29      | Report of a Phase II Environmental Site Assessment                                  |
| Etobicoke, ON           |         | Construction Control Inc., December 2001                                            |
| 50000 W. Pontiac Tr.    | 111     | Diesel Fuel Discharge to Surface Water                                              |
| Wixom, MI               |         | MDEQ, Aug. 7, 1996                                                                  |
| •                       |         | Environmental Assessment, ENSR, June 1990                                           |
|                         |         | Interoffice Memorandum to Paul Murdoch                                              |



|                                                      |         | Consulting Services Inc., Jan. 20, 1995                                                              |
|------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------|
| 6100 W. Howard St.<br>Niles, IL                      | 110     | Niles CCL Custom Manufacturing, Site<br>Remediation Technical Reports<br>Illinois EPA, Aug. 24, 1998 |
|                                                      |         | Interoffice Memorandum to Paul Murdoch Consulting Services Inc., February 22, 1995                   |
| 1862 Suncast Lane, Batavia, IL                       | 241     | Phase I ESA, CRA, March 2011                                                                         |
| Pond Lane, Parkfields<br>Wolverhampton, UK           | 129     | Environmental, Health and Safety Liability Audit ERM, Sept. 1994                                     |
| Jarvis Porter Peha<br>3993 Houten, NL                | 149     | Phase I Environmental Site Assessment AMEC, Dec. 12, 2001                                            |
| 4 5 rue Descartes<br>Vineuil, FR                     | 225     | Environmental Site Assessment Program, Operating Facility Profile                                    |
|                                                      |         | CCL Industries, Jan. 16, 2009                                                                        |
| 4 Plant Street<br>Plattsburgh, NY                    | 91      | Environmental and Pollution Liability Assessment AMEC, Oct. 31, 2002                                 |
| 1725 South Third St.                                 | 99      | Phase I Environmental Site Assessment                                                                |
| Memphis, TN                                          |         | AMEC, Apr. 15, 2002                                                                                  |
| Estate Road No. 6                                    | 116     | Phase I Environmental Site Assessment                                                                |
| South Humberside<br>Industrial Estate<br>Grimsby, UK |         | AMEC,                                                                                                |
| Akinsons Way                                         | 123-124 | Phase I Environmental Site Assessment                                                                |
| Foxhill Industrial Park<br>Scunthorpe, UK            |         | AMEC,                                                                                                |
| 8800 South Boulevard                                 | 100     | Phase I Environmental Site Assessment                                                                |
| Charlotte, NC                                        |         | Agra, March 26, 1998                                                                                 |
| 8 Marlen Drive                                       | 75      | Phase I Environmental Site Assessment                                                                |
| Robbinsville, NJ                                     |         | Golder, September 2006                                                                               |
| 104 North Gold Drive                                 | 186     | Phase I ESA, CRA, November 2010                                                                      |
| Robbinsville, NJ                                     |         | Phase I ESA - Amec - July 2014                                                                       |
| 1200 West Bailey St.                                 | 108     | Phase I ESA and Environmental Compliance Audit                                                       |
| Sioux Falls, SD                                      |         | AMEC, July 2, 2004                                                                                   |
|                                                      |         | Phase I ESA - Amec - September 2014                                                                  |
|                                                      |         | Phase I ESA, CRA, November 2010                                                                      |
| 1831 Portal Street                                   | 156     | Phase I ESA and Environmental Compliance Audit                                                       |
| Baltimore, MD                                        |         | AMEC, Feb. 24, 2003                                                                                  |



|                                    |       | Phase I ESA, CRA, December 2010                                        |
|------------------------------------|-------|------------------------------------------------------------------------|
| 1187 1191 Industrial Rd.           | 67 68 | Phase I Environmental Site Assessment                                  |
| Cold Spring, KY                    |       | CRA, August 2007                                                       |
|                                    |       | Phase I ESA - CRA - November 2012                                      |
|                                    |       |                                                                        |
| 15 Controls Drive                  | 56    | Phase I Environmental Site Assessment                                  |
| Shelton, CT                        |       | CRA, January 2007                                                      |
|                                    |       |                                                                        |
|                                    |       | Phase I ESA, CRA, July 2011                                            |
| 124-126 Pt. West Blvd.             | 189   | Phase I ESA and Environmental Compliance Audit                         |
| St. Charles, MO                    |       | AMEC, Oct. 11, 2005                                                    |
| 208 Spring Drive                   | 188   | Phase I ESA and Environmental Compliance Audit                         |
| St. Charles, MO                    |       | AMEC, Oct. 11, 2005                                                    |
|                                    |       |                                                                        |
|                                    |       | Phase I ESA, CRA, July 2011                                            |
| 2003 Case Parkway                  | 20100 | Memorandum - Environmental Site Assessment                             |
| Twinsburg, OH                      |       | CCL, July 23, 2007                                                     |
|                                    |       |                                                                        |
|                                    |       | Draft - Phase I Environmental Site Assessment                          |
|                                    |       | CRA, December 2006                                                     |
| 576 College Comm.<br>Upland, CA    | 153   | Phase I Environmental Site Assessment                                  |
| opiand, on                         |       | CRA, January 2008                                                      |
|                                    |       | Phase I ESA - Amec - June 24, 2014                                     |
| 24181 8th Street East, Sonoma, CA  | NEW   | Phase I ESA - CRA June 2012                                            |
| 4000 Westinghouse<br>Charlotte, NC | 114   | Phase I Environmental Site Assessment                                  |
| Chanotte, NC                       |       | CRA, January 2007                                                      |
|                                    |       | Phase I ESA - CRA - November 2012                                      |
| Toldbodgade 96,                    | 168   | Environmental Health and Safety Disclosure Depart                      |
| Randers, Denmark                   | 100   | Environmental, Health and Safety Disclosure Report COWI, December 2002 |
|                                    |       | COVVI, December 2002                                                   |
|                                    |       | Phase I ESA, CRA, August 2011                                          |
|                                    |       |                                                                        |
| Tjaebyvej 90<br>Randers, Denmark   | 167   | Environmental, Health and Safety Disclosure Report                     |
| kanders, Denmark                   |       |                                                                        |



|                                                          |     | COWI, December 2002                                                                                  |
|----------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------|
| 2001 North Hunt St.                                      | 93  | Phase I Site Assessment                                                                              |
| Terre Haute, IN                                          |     | Geraghty Miller, Sept. 15, 1994                                                                      |
| Ditchling Press<br>Burgess Hill                          | 190 | Phase I Environmental Site Assessment                                                                |
| West Sussex, UK                                          |     | AMEC, Sept. 12, 2005                                                                                 |
| Unit 3<br>Pioneer Bus. Park                              | 202 | Phase I Environmental Site Assessment CRA, December 2006                                             |
| Wakefield<br>West Yorkshire, UK                          |     | Phase I ESA - Amec - February 2014                                                                   |
| Treet renterme, ert                                      |     | Phase I ESA, CRA, December 2010                                                                      |
| Unit 6                                                   | 177 | Professional Opinion on Environmental Risk                                                           |
| Pioneer Bus. Park<br>Wakefield                           |     | Wilburn Associates, Dec. 19, 2006                                                                    |
| West Yorkshire, UK                                       |     | Phase I ESA - Amec - March 2014<br>Phase I ESA, CRA, December 2010                                   |
| 15 Cliffe Ind. Estate<br>Lewes, UK                       | 146 | Phase I Environmental Site Assessment AMEC, Jan. 15, 2002                                            |
| Ingram Row<br>Leeds, UK                                  | 147 | Phase I Environmental Site Assessment AMEC, Jan. 15, 2002                                            |
| Leeus, Oik                                               |     | Contamination and Geotechnical Assessment of                                                         |
|                                                          |     | Proposed Development JPG, August 2003                                                                |
| Unit B, Cefndy Rd.<br>Employment Park<br>North Wales, UK | 159 | Environmental Due Diligence Audit Report DP Franks, Feb. 12, 2002                                    |
| Nyager 11-13<br>Brondby, Denmark                         | 161 | Environmental, Health and Safety Disclosure Report COWI, December 2002 Phase I ESA, CRA, August 2011 |
| Nyager 15-17<br>Brondby, Denmark                         | 162 | Environmental, Health and Safety Disclosure Report COWI, December 2002                               |
| Nyager 4<br>Brondby, Denmark                             | 163 | Environmental, Health and Safety Disclosure Report COWI, December 2002                               |
| Midtager 2<br>Brondby, Denmark                           | 164 | Environmental, Health and Safety Disclosure Report COWI, December 2002                               |
| Midtage 21<br>Brondby, Denmark                           | 165 | Environmental, Health and Safety Disclosure Report COWI, December 2002                               |
| Kierska-Kiekrz                                           | 178 | CD with a bunch of documents mostly in Polish, and e-                                                |
| 60-480 Rokietnica<br>Poland                              |     | mail to Susan<br>Snelgrove from Tony Arif, dated March 25, 2005                                      |
| V. D. I.O.                                               |     | Phase I ESA, Amec, December 2011                                                                     |
| Via Del Commercio, 2<br>Concorezzo (MI), Italy           | 193 | Phase I Environmental Site Assessment AMEC, Sept. 12, 2005                                           |
| Hongqi Road                                              | 179 | Environmental Research of CCL Label, Inc.                                                            |



| Occasional Providence                   |         | ODZODO Facilita di a Ocazaltanta I.t.I. Dec. 40, 0004   |
|-----------------------------------------|---------|---------------------------------------------------------|
| Guangdong Province                      |         | GDZCDC Engineering Consultants Ltd., Dec. 13, 2004      |
| Guanzhou, China                         |         |                                                         |
| Gengyun Rd., Hefei                      | 184     | Environmental Site Assessment Program - Operating       |
| Anhui Prov., China                      |         | Facility Profile                                        |
|                                         |         | CCL Industries, May 26, 2005                            |
| Carmelray Industrial Park 2, Km 54      |         | Operating Facility Profile, December 19, 2012           |
| National Highway, Calamba City, Laguna, |         |                                                         |
| Philippines                             |         |                                                         |
| 69 Moo 5, Wellgrow                      | 155     | Phase I Environmental Site Assessment                   |
|                                         | 155     |                                                         |
| Industrial Estate                       |         | AMEC, Oct. 2003                                         |
| Thailand                                |         |                                                         |
|                                         |         | Phase I ESA, CH2M HILL, July 27, 2011                   |
| No. 8 VSPII, St. No. 6                  | 215     | Environmental Site Assessment Program - Operating       |
| Bing Duong Ind. Serv.                   |         | Facility Profile                                        |
| Vietnam                                 |         | CCL Industries, no date                                 |
| 19 Railway Terrace                      | 221     | Phase I Environmental Site Assessment                   |
| Nuriootpa, Australia                    |         | URS, March 14, 2008                                     |
| 102 Tynte St.                           | 222     | Environmental Site Assessment Program - Operating       |
|                                         | 222     |                                                         |
| Adelaide, Australia                     |         | Facility Profile                                        |
| 44 Danasan Of 11 11 11 15 11            | A 15-14 | CCL Industries, Feb. 18, 2008                           |
| 1A Bessemer Street, Unit 4, Blacktown,  | NEW     | Phase I ESA and Limited Compliance Review, ERM,         |
| New South Wales 2148, Australia         |         | April 30, 2012                                          |
| 809-821 Botany Road                     | 223     | Environmental Site Assessment Program - Operating       |
| Rosebery, Australia                     |         | Facility Profile                                        |
| •                                       |         | CCL Industries, Feb. 18, 2008                           |
| R. Antonio Dare St.                     | 203     | Phase I Environmental Site Assessment                   |
| Criciuma                                |         | CRA, December 2006                                      |
| Santa Catarina, Brazil                  |         | OTA, December 2000                                      |
| R. Comendador J.L.                      | 194     | Technical Assessment                                    |
|                                         | 194     |                                                         |
| Vinhedo, Brazil                         |         | Campinas Environmental Agency, Oct. 30, 2006            |
|                                         |         | DI 1504 OD4 M 1 0044                                    |
|                                         |         | Phase I ESA, CRA, March 2011                            |
| San Jeronimo                            | 207     | Phase I Environmental Site Assessment                   |
| San Jose de Iturbide                    |         | CRA, May 2007                                           |
| Guanajiato, Mexico                      |         |                                                         |
| Neversink Ave.                          | 85      | Modified Environmental Risk Assessment                  |
| Port Jervis, NY                         |         | Consulting Services Inc., Oct. 5, 1995                  |
| Skyline Drive                           | 98      | Modified Environmental Risk Assessment                  |
|                                         | 30      |                                                         |
| Port Jervis, NY                         |         | Consulting Services Inc., Oct. 5, 1995                  |
|                                         |         | DI 15 : 110": A                                         |
|                                         |         | Phase I Environmental Site Assessment                   |
|                                         | 1       | Woodward-Clyde Consultants, Nov. 1990                   |
| Rollesby Road, Kings Lynne              | 204     | Phase II Environmental Site Assessment, Conestoga-      |
| Norfolk, UK                             |         | Rovers Associates                                       |
|                                         |         | December 2006                                           |
|                                         |         | Phase I ESA, CRA, December 2010                         |
|                                         |         | Phase I ESA - Amec - March 2014                         |
| 87 Moo 5 Wellgrow Industrial Estate     | 219     | Project Postcard Phase I Environmental Site             |
| •                                       | 219     |                                                         |
| Thailand                                |         | Assessment 5007                                         |
|                                         |         | ERM, August 2007.                                       |
|                                         |         |                                                         |
|                                         |         | Soil Quality Analysis Report, S.P.S. Consulting Service |
|                                         |         | Co., Ltd.                                               |
|                                         |         | August 8, 2007                                          |
|                                         |         |                                                         |
|                                         |         | Phase I ESA, CH2M HILL, July 27, 2011                   |
|                                         | 1       |                                                         |



| 8051 Keele Street, Concord, Ontario            | 26 and 31 | Final Report, 2007 Annual Groundwater Monitoring and Sampling Report                        |
|------------------------------------------------|-----------|---------------------------------------------------------------------------------------------|
|                                                |           | Jacques Whitford, February 29, 2008                                                         |
|                                                |           | Summary of Pre-Existing Conditions - Provided to                                            |
|                                                |           | Potential Insurers and prepared by CCL Industries Inc.                                      |
| 13 Bethridge Road, Toronto, Ontario            | 5         | 2007 Annual Groundwater Monitoring and Sampling                                             |
|                                                |           | Report Jacques Whitford, January 2, 2008                                                    |
|                                                |           |                                                                                             |
|                                                |           | Summary of Pre-Existing Conditions - Provided to Potential Insurers                         |
|                                                |           | and prepared by CCL Industries Inc.                                                         |
| 1 Hegeler Avenue, Danville, Illinois           | 109       | Summary of Pre-Existing Conditions - Provided to Potential Insurers                         |
|                                                |           | and prepared by CCL Industries Inc.                                                         |
|                                                |           | (hard copy reports were reviewed in brief to support CCL                                    |
| 35 Martin Street, Cumberland,                  | 76        | summary) First Five-Year Review Report                                                      |
| Rhode Island                                   | 70        | September 2002, prepared by USEPA                                                           |
|                                                |           | Letter from KIK to USEPA regarding planned Site                                             |
|                                                |           | closure<br>September 22, 2008                                                               |
|                                                |           |                                                                                             |
|                                                |           | Summary of Pre-Existing Conditions - Provided to Potential Insurers                         |
|                                                |           | and prepared by CCL Industries Inc.                                                         |
| Fockestrasse 11, Laupheim,                     | 125       | UST Removal and Soil Excavation, ERM                                                        |
| Germany                                        |           | May 2008                                                                                    |
|                                                |           | Semi-Annual Letter Report, Soil Vapour Extraction, ERM                                      |
|                                                |           | January to June 2008                                                                        |
|                                                |           | Summary of Pre-Existing Conditions - Provided to Potential Insurers                         |
|                                                |           | and prepared by CCL Industries Inc.                                                         |
| Fockestrasse 12, Laupheim,                     | 126       | Phase I ESA                                                                                 |
| Germany<br>8001 Keele Street, Concord, Ontario | 26        | AMEC Earth Environmental GmbH, January 6, 2004 Final Report, KG Packaging Tank Farm Upgrade |
| coor noole carson, consora, ciname             |           | Barenco, November 7, 1996                                                                   |
|                                                |           | 2008 Annual Groundwater Monitoring and Sampling                                             |
|                                                |           | Report Jacques Whitford, ,October 3, 2008                                                   |
|                                                |           |                                                                                             |
|                                                |           | Summary of Pre-Existing Conditions - Provided to Potential Insurers                         |
|                                                |           | and prepared by CCL Industries Inc.                                                         |
| JM Mills Landfill, OU2 of                      | Related   | Summary of Pre-Existing Conditions - Provided to                                            |
| Peterson-Puritan Superfund Site                | to 76     | Potential Insurers                                                                          |
| Cumberland, Rhode Island Shpack Superfund Site | Related   | and prepared by CCL Industries Inc.  Letter - Proposal for Engineering and Construction     |
| Attleboro, Massachusetts                       | to 76     | Related Services                                                                            |
| ,                                              |           | ERM, June 19, 2008                                                                          |



|                                      |          | Summary of Pre-Existing Conditions - Provided to                   |
|--------------------------------------|----------|--------------------------------------------------------------------|
|                                      |          | Potential Insurers                                                 |
|                                      |          | and prepared by CCL Industries Inc.                                |
| LR R Superfund Site                  |          | Summary of Pre-Existing Conditions - Provided to                   |
| North Smithfield, Rhode Island       |          | Potential Insurers                                                 |
|                                      |          | and prepared by CCL Industries Inc.                                |
|                                      |          | and properties by COL measures me.                                 |
|                                      |          |                                                                    |
|                                      |          | Notice of Assessment (Giarrusso Norton Cooley                      |
|                                      |          | McGlone, PC)                                                       |
|                                      |          | June 27, 2008                                                      |
|                                      |          | Status Update (Giarrusso Norton Cooley McGlone,                    |
|                                      |          | PC)                                                                |
| Omega Superfund Site                 | Related  | December 29, 2008 Summary of Pre-Existing Conditions - Provided to |
| Santa Fe Springs, California         | to       | Potential Insurers                                                 |
| Santa i e Springs, Camornia          | Kolmer   | and prepared by CCL Industries Inc.                                |
| LWD Superfund Site                   | Rollinei | and prepared by COL industries inc.                                |
| Calvert City, Kentucky               |          |                                                                    |
| Seaboard Chemical                    |          |                                                                    |
| Guilford County, North Carolina      |          |                                                                    |
| 308 South Rogers Lane, Raleigh, NC   | 243      | Phase I ESA, CRA, April 2011                                       |
| 92 Ark Road, Burlington County, New  | new      | Phase I ESA, 92 Ark Road, Burlington County, New                   |
| Jersey                               |          | Jersey, conducted by Patriot Environmental                         |
| ,                                    |          | Management , dated December 2013                                   |
|                                      |          | Preliminary Assessment Site Investigation Report, 92               |
|                                      |          | Ark Road, Lumberton, New Jersey, conducted by                      |
|                                      |          | Geosyntec Consultants, dated March 2014                            |
| Carroll Dubies                       | Related  | Supporting Documentation for Five-Year Review                      |
| Port Jervis, NY                      | to 71    | Cardinal Resources, March 2005                                     |
|                                      |          |                                                                    |
|                                      |          | August 2006 Sampling Report                                        |
|                                      |          | Cardinal Resources, November 2006                                  |
|                                      |          | Summary of Pre-Existing Conditions - Provided to                   |
|                                      |          | Potential Insurers                                                 |
|                                      |          | and prepared by CCL Industries Inc.                                |
|                                      |          | Phase I ESA, Woodward-Clyde, November 1990                         |
|                                      |          | (WWC for CCL)                                                      |
|                                      |          | Phase II ESA, Woodward-Clyde, December 17, 1990                    |
|                                      |          | (WWC for CCL)                                                      |
| King Street, Port Jervis, New Jersey | 71       | Phase I ESA, Clayton Environmental Consultants,                    |
| (Kolmer)                             |          | September 19, 1997                                                 |
| /                                    |          | (Clayton for CCL)                                                  |
|                                      |          |                                                                    |
|                                      |          | Report of Environmental Evaluation, Law Engineering,               |
|                                      |          | December 17, 1997                                                  |
|                                      |          | (Law for OSG)                                                      |
| 855 Crowe Road,                      | 59       | Environmental Assessment of Imperial Cosmetic                      |
| East Stroudsburg, Pennsylvania       |          | Services, Inc.                                                     |
|                                      |          | ManTech Environmental Technology, Inc., January 3,                 |
|                                      |          | 1996                                                               |
|                                      |          | DI 1504 OL 1 5 1 110 11 1                                          |
|                                      |          | Phase I ESA, Clayton Environmental Consultants,                    |
|                                      |          | September 19, 1997                                                 |



|                                                               |            | (Clayton for CCL)                                                                             |
|---------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------|
|                                                               |            | Report of Environmental Evaluation, Law Engineering, December 18, 1997 (Law for OSG)          |
| Calle Lateral No. 20 Av.                                      | 139        | Phase I ESA, Woodward-Clyde, November 1990 (WWC for CCL)                                      |
| Tequesquinal, Mexico                                          |            |                                                                                               |
|                                                               |            | Phase I ESA, Clayton Environmental Consultants,<br>September 19, 1997<br>(Clayton for CCL)    |
|                                                               |            | Report of Environmental Evaluation, Law Engineering, December 18, 1997 (Law for OSG)          |
| Guillermo Marconi No. 8 and<br>Alessandro Volta No. 7, Mexico | 141<br>133 | Phase I ESA, Woodward-Clyde, November 1990 (WWC for CCL)                                      |
| 23 Truman Road, Barrie, Ontario                               | 42         | Phase I ESA, Woodward-Clyde, November 1990 (WWC for CCL)                                      |
|                                                               |            | Report of Environmental Evaluation, Law Engineering, December 17, 1997 (Law for OSG)          |
|                                                               |            | Interoffice Memorandum to Paul Murdoch - February 16, 1995                                    |
| King Division, King Street                                    | 71         | (CSI for Environmental Compliance Services, Inc.)  Phase I ESA, Woodward-Clyde, November 1990 |
| Port Jervis, New York                                         |            | (WWC for CCL)                                                                                 |
|                                                               |            | Phase II ESA, Woodward-Clyde, December 17, 1990 (WWC for CCL)                                 |
| 45-49 King Road, Hornsby<br>New South Wales, Australia        | 131        | Phase I ESA, AGC Woodward-Clyde Pty Limited,<br>November 1990                                 |
|                                                               |            | Phase I ESA, Clayton Environmental Consultants,<br>September 19, 1997<br>(Clayton for CCL)    |
|                                                               |            | Report of Environmental Evaluation, Law Engineering, December 18, 1997 (Law for OSG)          |
| 901 Precision Drive, Denton, Texas                            | 228        | Phase I ESA, Woodward-Clyde, November 1990 (WWC for CCL)                                      |
|                                                               |            | CCL Memorandum to Ken O'Dell from Maurice Smith,<br>January 10, 1994                          |
| Lisa Packaging, Creamery Road<br>Ellenville, New York         | 227        | Phase I ESA, Woodward-Clyde, November 1990 (WWC for CCL)                                      |
|                                                               |            | Old Notes There is no Law report at time of Divestiture                                       |
| 450 North Sheridan Street                                     | 84         | Level One Environmental Assessment, Woodward-                                                 |
| Corona, California                                            |            | Clyde, November 13, 1990                                                                      |
|                                                               |            | Phase I ESA, Clayton Environmental Consultants,<br>September 19, 1997                         |



|                                         |        | (Clayton for CCL)                                    |
|-----------------------------------------|--------|------------------------------------------------------|
|                                         |        | Interoffice Memorandum to Paul Murdoch               |
|                                         |        | (CSI for Environmental Compliance Services, Inc.)    |
|                                         |        | Report of Environmental Evaluation, Law Engineering, |
|                                         |        | December 17, 1997                                    |
|                                         |        | (Law for OSG)                                        |
| 1490 rue Nobel, Unif F                  | 175    | Environmental and Pollution Liability Assessment     |
| Boucherville, Quebec                    | 175    | AMEC Earth Environmental, May 3, 2004                |
| 340 Huronia Road, Barrie, Ontario       | 19     | Phase I ESA, Woodward-Clyde, November 21, 1990       |
| 994 Islington and 104 Jutland Road      | 24 and | Interoffice Memorandum to Paul Murdoch, February 21, |
| Etobicoke, Ontario                      | 25     | 1995                                                 |
| Libbicoke, Officialio                   | 20     | (CSI for Environmental Compliance Services, Inc.)    |
| 80 Paramount Road,                      | 38     | Phase I ESA, Earth Tech (Canada) Inc., May 2004      |
| Winnipeg, Manitoba                      | 30     | Thase I Loa, Latti Tech (Canada) Inc., Way 2004      |
| 2300 Wisconsin Street                   | 115    | Facsimile Transmission from Peter Elleman to Bo      |
| Downers Grove, Illinois                 | 113    | Sirota Alan Dryden                                   |
| 4110 East Wood Street                   | 64     | Phase I ESA Limited Compliance Review                |
| Phoenix, Arizona                        | 04     | AGRA Earth Environmental, March 19, 1998             |
| 1825 Underwood Boulevard                | 105    | Phase I ESA Limited Compliance Revew                 |
| Delran, New Jersey                      | 103    | AGRA Earth Environmental, March 24, 1998             |
| 10 Bethridge Road, Rexdale, ON          | 3      | Phase I ESA, AMEC Earth Environmental, May 10,       |
| 11 Bethridge Road, Rexdale, ON          | 4      | 2002                                                 |
| 13 Bethridge Road, Rexdale, ON          | 5      | 2002                                                 |
| 2000 Kipling Ave, Rexdale, ON           | 32     |                                                      |
| 62 Belfield Road, Rexdale, ON           | 2      |                                                      |
| 1296 Martingrove Rd, Rexdale, ON        | 2      |                                                      |
| 901 Technology Way                      | 151    | Phase I ESA and Environmental Compliance Audit       |
| Libertyville, Illinois                  | 131    | AMEC Earth Environmental, July 7, 2005               |
| Vacant Lot - Rene Descartes Street      | 216    | Phase I ESA, Conestoga-Rovers Associates, May        |
| Saint-Bruno-De-Montarville, Quebec      | 210    | 2007                                                 |
| Gaint-Brano-Be-Wortarville, Quebee      |        | Phase I ESA - CRA - November 2012                    |
| East Amidon Street                      | 180    | Phase I Environmental Property Evaluation            |
| Sioux Falls, South Dakota               | 100    | American Technical Services, Inc., December 8, 2004  |
| 120 Stockton Street                     | 101    | Phase I ESA Limited Compliance Review                |
| Hightstown, New Jersey                  | 101    | AGRA Earth Environmental, March 26, 1998             |
| inginisterin, item colocy               |        | 7 to to the Earth Environmental, march 20, 1000      |
|                                         |        | Phase I ESA, Maser Consulting, October 27, 2003      |
|                                         |        | Phase I ESA - Amec - July 2014                       |
| Vacant Building                         | 217    | Phase I ESA, Conestoga-Rovers Associates, October    |
| 600 East 52nd Street North              |        | 2007                                                 |
| Sioux Falls, South Dakota               |        |                                                      |
| 1515 Garnet Mind Road                   | 185    | Phase I ESA Limited Compliance Review                |
| Boothwyn, Pennsylvania                  |        | AGRA Earth Environmental, January 26, 2005           |
|                                         |        |                                                      |
|                                         |        | Phase I ESA, CRA, December 2010                      |
| North Gold Drive                        | 186    | Phase I ESA, U.S. Inspect Commercial Real Estate     |
| Washington Township, New Jersey         |        | Services, June 28, 2001                              |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |        | (for CDK Partners)                                   |
| El Retiro Industrial Park               | 157    | Environmental and Pollution Liability Assessment     |
| San German, Puerto Rico                 |        | AMEC Earth Environmental, March 2003                 |
| ·                                       |        | ,                                                    |
|                                         |        | Phase I ESA, CRA, December 2010                      |
| Road 171 KM 0.2, Zona Urbana            | 142    | Phase I ESA, Conestoga-Rovers Associates, May        |
| Cidra, Puerto Rico                      |        | 2007                                                 |
|                                         |        |                                                      |



|                                                             |     | Phase I ESA, CRA, December 2010                                                 |
|-------------------------------------------------------------|-----|---------------------------------------------------------------------------------|
| 670 Progress Road                                           | 198 | Phase I ESA, Township Development Services, LLC,                                |
| Collierville (Memphis), Tennessee                           |     | February 27, 2006                                                               |
| = .                                                         |     | Phase I ESA - CRA - November 2012                                               |
| 1 Llodio Drive                                              | 74  | Phase I ESA Environmental Compliance Review                                     |
| Hermitage, Pennsylvania                                     |     | AGRA Earth Environmental, September 2, 2004                                     |
|                                                             |     | Disease LEGAL ODAL data di Massaggia de 0040                                    |
| A Landau Avanua                                             | 450 | Phase I ESA, CRA, dated November 2010                                           |
| 1 Lasley Avenue                                             | 150 | Phase I ESA, Conestoga-Rovers Associates, December 2007                         |
| Wilkes-Barre, Pennsylvania                                  |     |                                                                                 |
| 2501 W. Rosecrans Boulevard                                 | 112 | Phase I ESA - CRA - November 2012 Phase I ESA, PHASE ONE Inc., December 3, 1992 |
| Compton, California                                         | 112 | Phase I ESA, Phase One Inc., December 3, 1992                                   |
| Compton, Camornia                                           |     | Phase I ESA, Clayton, September 30, 1997                                        |
|                                                             |     |                                                                                 |
|                                                             |     | Phase I ESA, Conestoga-Rovers Associates, May                                   |
| 2050 Fact 200th Charat (Duilding 200)                       | 220 | 2007                                                                            |
| 2250 East 220th Street (Building 220)<br>Carson, California | 229 | Phase I ESA, Conestoga-Rovers Associates, August 2007                           |
| Carson, Camorna                                             |     | Phase I ESA - CRA - November 2012                                               |
| CD-Design, G.m.b.H, Lindgesfeld 26                          | 218 | Phase I ESA, Conestoga-Rovers Associates,                                       |
| 42653 Solingen, Germany                                     | 210 | February 2008                                                                   |
| Eltex IndustHriekennzeichnung G.m.b.H                       | 224 | Environmental Assessment, Phase I Report                                        |
| Lindgesfeld 27                                              |     | ERM, November 11, 2008                                                          |
| Solingen, Germany                                           |     | 21411, 14040111201 11, 2000                                                     |
| Steinbeis PPL GmbH                                          | 181 | Phase I ESA                                                                     |
| Industriestrasse 2                                          |     | AMEC Earth Environmental, January 13, 2005                                      |
| D-83607, Holzkirchen, Germany                               |     |                                                                                 |
| •                                                           |     | Phase I ESA, CRA, August 2011                                                   |
| Steinbeis IBL GmbH                                          | 182 | Phase I ESA                                                                     |
| Bruckenweg 5                                                |     | AMEC Earth Environmental, January 13, 2005                                      |
| D-08393 Meerane, Germany                                    |     |                                                                                 |
|                                                             |     | Phase I ESA, CRA, July 2011                                                     |
| 68 Rue de Lille                                             | 152 | Environmental, Health Safety Disclosure Report                                  |
| "Les Gravelles"                                             |     | Enhesa S.A Environmental Policy Centre, October                                 |
| 59710 Avelin, France                                        |     | 2001                                                                            |
| Jarvis Porter Baulip                                        | 148 | Phase I ESA                                                                     |
| 35 39 Rue Marcel Dassault                                   |     | AMEC Earth Environmental, January 15, 2002                                      |
| Bondy, France                                               | 400 | For instance and all the life to Orfote Date Dillings                           |
| 20 Rue Louis Arago                                          | 160 | Environmental, Health Safety Due Diligence                                      |
| 91380 Chilly-Mazarin, France                                |     | Assessment Report                                                               |
|                                                             |     | Enhesa S.A Environmental Policy Centre,                                         |
|                                                             |     | November18 19, 2002                                                             |
|                                                             |     | Phase I ESA, CRA, February 2011                                                 |
| Val d'Atur, F-24759                                         | 183 | Phase I ESA                                                                     |
| Steinbeis Packaging S.A.                                    | 100 | AMEC Earth Environmental, January 13, 2005                                      |
| Trelissac Cedex, France                                     |     |                                                                                 |
|                                                             |     | Phase I ESA, CRA, March 2011                                                    |
| ITW Austria Vertriebs GES.m.b.H                             | 200 | Phase I ESA, Conestoga-Rovers Associates,                                       |
| (Auto Sleeve, Austria                                       |     | December 2006                                                                   |
| Werner-Hiesenberg Strasse 6                                 |     |                                                                                 |
| 9100 Voelkermarkt, Kaernten, Austria                        |     | Phase I ESA, CRA, August 2011                                                   |
| Pachem AG                                                   | 158 | Phase I ESA                                                                     |
| I AUICIII AU                                                | 100 | I Hase I Esh                                                                    |



| Riedstrasse 2                                                                                       |            | AMEC Earth Environmental, February 23, 2003                                                          |
|-----------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------|
| A-6845 Hohenems, Austria                                                                            |            |                                                                                                      |
|                                                                                                     | 400        | Phase I ESA, CRA, August 2011                                                                        |
| Inprint Benelux B.V.<br>Ijsselstraat 15<br>5347 KG Oss, The Netherlands                             | 192        | Phase I ESA<br>AMEC Earth Environmental, September 12, 2005                                          |
|                                                                                                     |            | Phase I ESA, CRA, July 2011                                                                          |
| 3077 Mainway<br>Burlington, Ontario                                                                 | 33         | Phase I ESA<br>AGRA Earth Environmental, March 8, 1996                                               |
| _ag.c, cac                                                                                          |            |                                                                                                      |
|                                                                                                     |            | Tank Removal and Soil Inspection Barenco Inc., April 25, 1996                                        |
| Cafetal Street Nos. 162-A<br>165-B                                                                  | 135<br>137 | Phase I ESA (for both sites)                                                                         |
| Гоо-Б<br>Col. Granjas Mexico                                                                        | 137        | AGRA Earth Environmental, March 26, 1998                                                             |
| Mexico City, Mexico                                                                                 |            |                                                                                                      |
| Sara Lee Facility, FINSA Industrial Park                                                            | 199        | Phase I ESA Pollution Liability Assessment                                                           |
| Lots 21 and 23, Avenida Michoacan No. 20                                                            |            | AMEC Earth Environmental, May 4, 2006                                                                |
| Colonia Renovacion, Delegacion                                                                      |            | Limited Phase II ESA                                                                                 |
| Iztapalapa                                                                                          |            | AMEC Earth Environmental, June 20, 2006                                                              |
| Mexico, Distrito Federal Parque Industrial La Luz                                                   | 134        | Phase I ESA Compliance Audit                                                                         |
| Cuautitlan Izcalli                                                                                  | 134        | AGRA Earth Environmental, April 7, 1997                                                              |
| Edo. De Mexico, Mexico                                                                              |            |                                                                                                      |
| 998 Islington                                                                                       | 23         | Removal of Fuel Tank                                                                                 |
| Toronto, Ontario                                                                                    |            | Barenco Inc., December 21, 1990                                                                      |
| Avery Dennison Corporation, 2845 Center Road, Brunswick, Ohio, USA                                  | Avery      | Phase I ESA - ERM - Feb 8, 2013                                                                      |
| 685 Howard Street, Buffalo, New York,<br>USA                                                        | Avery      | Phase I ESA - ERM - Feb 8, 2013                                                                      |
| 15939 Industrial Parkway, Cleveland,<br>Ohio, USA                                                   | Avery      | Phase I ESA - AECOM - April 19, 2010 Asbestos and Paint Chip Analysis - EA Group - January 30, 2013; |
|                                                                                                     |            | Phase I ESA - ERM - Feb 8, 2013<br>Phase II ESA - CRA - April 19, 2013                               |
| 29485 Highway 76 East, Clinton, South                                                               | Avery      | Additional Subsurface Investigation - ENSR - February                                                |
| Carolina, USA                                                                                       |            | 1996;                                                                                                |
|                                                                                                     |            | Comprehensive Environmental Assessment - AMEC -                                                      |
|                                                                                                     |            | September 2001;<br>  Voluntary Corrective Action Plan - AMEC - May 19,                               |
|                                                                                                     |            | 2004;                                                                                                |
|                                                                                                     |            | Phase I ESA - ERM - Feb 8, 2013                                                                      |
| 650 705 West 67th Avenue, Schererville,                                                             | Avery      | Various Memos and Documents from 1990 to 2012;                                                       |
| IN, USA                                                                                             |            | Phase I ESA - ERM - Feb 8, 2013                                                                      |
| 17700 Foltz Industrial Parlace                                                                      | A.,        | Phase II ESA - CRA - May 10, 2013                                                                    |
| 17700 Foltz Industrial Parkway,<br>Strongsville, Ohio, USA                                          | Avery      | Phase I ESA - ERM - Feb 8, 2013                                                                      |
| 16 Abrams Street, Units 3 and 4, Balcatta,<br>Western Australia 6021, Australia                     | Avery      | Phase I ESA - ERM - May 2011                                                                         |
| 1840 Clements Road, Pickering, Ontario                                                              | Avery      | Phase I ESA - ERM - May 2011                                                                         |
|                                                                                                     |            |                                                                                                      |
| Miesbacher Stra □e 5, 83626.                                                                        | ı Averv    | I PIIASE I ESA - ERIVI - IVIAV ZUTT                                                                  |
| Miesbacher Stra □ e 5, 83626,<br>Oberlaindern-Valley, Germany<br>Av. Todos los Santos □7651, Parque | Avery      | Phase I ESA - ERM - May 2011                                                                         |



| Industrial Pac fico, Tijuana, Baja California, Mexico                                |                           | Phase I ESA - ERM - May 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit 5, Warth Park, Raunds,<br>Northamptonshire, UK                                  | Avery                     | Phase I ESA - ERM - May 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 89 Cross Street, Holliston, Massachusetts,<br>United States                          | Avery                     | Downgradient Property Status Report - Johnson<br>Company - July 2008;<br>Groundwater Monitoring Results - Johnson Company -<br>August 12, 2010;<br>Phase I ESA - ERM - May 2011                                                                                                                                                                                                                                                                                                                                                                              |
| 4100 Old Highway 45 North Meridian,<br>Mississippi, United States                    | Avery                     | MEMO - Completion of remediation Program - April 24, 1997; Phase I ESA - ERM - May 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6987 Calle de la Linea, Suite 101, San<br>Diego, California, United States           | Avery                     | Phase I ESA - ERM - May 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 00040 - Via Honduras, 15 Pomezia (RM),<br>Lazio, Italy                               | Avery                     | Phase I ESA - ERM - May 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Industrivej 59 R□nnede, Denmark                                                      | Avery                     | Phase I ESA - ERM - May 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11 Carrington Road, Castle Hill, Sydney,<br>New South Wales, Australia               | Avery                     | Phase I ESA - ERM - May 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1 Better Way, Chicopee, Massachusetts,<br>United States                              | Avery                     | Phase I ESA - ERM - June 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3-5 Carl-Zeiss St., Garching St. Germany                                             | added<br>april 1,<br>2013 | Phase I Environmental Site Assessment (ESA), 3-5 Carl-Zeiss Street, Garching, Germany, conducted by Amec Environmental Infrastructure (Amec), dated August 9, 2013                                                                                                                                                                                                                                                                                                                                                                                           |
| 1938 Olney Ave., Cherry Hill, NJ                                                     | added<br>Feb 28,<br>2014  | Phase I ESA, 1938 Olney Avenue, Cherry Hill, Camden County, New Jersey, conducted by Marathon Engineering Environmental Services Inc., dated December 20, 2013                                                                                                                                                                                                                                                                                                                                                                                               |
| Costa Rica 5379, B1667JUU-Pdo. De<br>Malvinas Argentinas, Buenos Aires,<br>Argentina | added<br>Dec 23,<br>2013  | Phase I ESA Reca consultores SRL Sept 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 711 Rivermede Rd., Vaughan, ON                                                       |                           | RSC dated Nov 15, 2012 (existing sites on policy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Bandfix, Switzerland                                                                 | added<br>Sept 4,<br>2014  | Environmental Due Diligence Summary (EDDS), Bandfix AG, Industriestrasse 19, 8962 Bergdietikon, Switzerland, conducted by Amec Environmental Infrastructure GmbH, dated July 31, 2014                                                                                                                                                                                                                                                                                                                                                                        |
| Aludisc, 520 East Railroad St., Clinton, SC                                          | Added<br>Dec. 29,<br>2014 | Phase I ESA - ATEC - October 10, 1996 Corrective Action Plan - ATC - September 2, 1997 Pollution Incident Form - March 21, 1997 Comprehensive Site Assessment - ATEC - March 1997 Groundwater Monitoring Reports - Proterra - 1999-2003 Update and Monitoring Report - Proterra - March 22, 2006 Voluntary Clean-Up Checklist - Magnolia Properties - October 26, 2007 EMI Leter - August 25, 2011 Limited Site Investigation - Terracon - September 16, 2011 Phase I ESA - AMEC - November 14, 2014 Summary of Groundwater Event - Amec - November 24, 2014 |
| Wixom, MI                                                                            | added<br>Feb 6,<br>2015   | Phase I ESA - AMEC - December 19, 2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Guanajuato, Mexico                                                                   | added                     | CRA 2007 Phase I ESA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Suariajuato, MONIOO                                                                  | uuucu                     | OTT ZOOT I HOOT LOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



|            | Feb 9,<br>2015 |                                                   |
|------------|----------------|---------------------------------------------------|
| Verona, WI | added          | Phase I ESA - Amec Foster Wheeler - February 2015 |
|            | Feb 27,        |                                                   |
|            | 2015           |                                                   |

All other terms and conditions of this Policy remain unchanged.



### **COVERAGE LIMITATION AND REOPENER ENDORSEMENT (GPPL)**

| Named Insured CCL Industries Inc. |                                     |                                                | Endorsement Number 32                        |  |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|--|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |  |
| ACE INA Ins                       | of Insurance Company) <b>Urance</b> | ,                                              | ı                                            |  |

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The <code>insured</code> and the Insurer hereby agree to the following changes to this Policy:

| COVERAGE LIMITATION:                                                                                  |
|-------------------------------------------------------------------------------------------------------|
| ☐ Emergency response costs: *                                                                         |
| □ business interruption loss     □ *                                                                  |
| ☑ diminution in value:: *                                                                             |
| ☑ rental income; *                                                                                    |
|                                                                                                       |
| ☑ remediation costs:                                                                                  |
| ☐ property damage;                                                                                    |
| □ bodily injury□                                                                                      |
| *to the extent applicable due to such Supplemental Coverage being added to this Policy by endorsement |

Coverage is not afforded pursuant to this Policy for any of the exposures indicated above, including any associated degal defence expenses with respect to those specific pollution conditions dentified in the Schedule of Limited Coverage, below.

### **II.** RE-OPENER OF COVERAGE:

In the event that ©losure is achieved with respect any of the pollution conditions identified in Schedule of Limited Coverage, below, then coverage limitations set forth in Section I., above, may be deleted with respect to those pollution conditions that achieve such ©losure. The coverage limitations identified in Section I., above, can only be deleted by endorsement to this Policy issued by the Insurer.

III. For the purposes of this Endorsement, closure shall mean that the insured or foreign subsidiary obtains a written No Further Action determination, or otherwise achieves closure in accordance with the regulatory requirements applicable to the subject pollution conditions, which has been confirmed in writing by the regulatory agency or authority with jurisdiction over the pollution conditions.

If such closure is contingent upon: 1) certain additional actions with respect to the subject pollution conditions in order to be effective; or 2) on the use of institutional or engineering controls in effect at a covered location; then any such additional actions must be completed in order for coverage to be effective pursuant to this Endorsement, and such coverage shall be contingent upon the continued maintenance of said engineering controls and the continued use of the covered location in a manner consistent with said institutional control, as applicable, during the policy period or any extended reporting period.



### SCHEDULE OF LIMITED COVERAGE

- 1. **1 Hegeler Lane Danville, IL:** tetrachloroethene, bromodichloromethane, chloroform, 1,1,1-trichloroethane; 1,1-dichloroethane; 1,1-dichloroethene; cis-1,2-dichloroethene; trans-1,2-dichloroethene; trichlorofluoromethane; vinyl chloride; chloroethane in groundwater.
- 2. **8051 Keele Street, Concord, ON**: vinyl chloride, 1-1 dichloroethylene; cis-1,2-dichloroethylene; 1,1,1-trichloroethane; trichloroethene; tetrachloroethylene; dichloromethane; toluene; acetone; trans-1,2-dichloroethylene; trichloroethylene; trans-1-3-dichloropropene in both shallow and deep groundwater.
- 3. **13 Bethridge Road, Rexdale, Ontario:** Acetone; 1,1-dichloroethylene; trichloroethylene; vinyl chloride; 1,1,1-trichloroethane; and pine oil in groundwater.
- 4. **8001 Keele Street, Concord, Ontario:** Vinyl chloride, 1,1,-dichloroethylene; cis-1,2-dichloroethylene; 1,1,1-trichloroethane; trichloroethylene and tetrachloroethylene in shallow and deep groundwater.
- 5. **35 Martin Drive, Cumberland, Rhode Island:** 1,1-dichloroethene; 1,2-dichloroethene; methylene chloride; tetrachloroethene; 1,1,1-trichloroethene; ethylbenzene; styrene, toluene, xylenes in soils **35 Martin Drive, Cumberland, Rhode Island:** 1,1-dichloroethene; 1,2-dichloroethene; methylene chloride; tetrachloroethene; 1,1,2-trichloroethene; trichloroethene; benzene; vinyl chloride; bis(2ethylhexyl) phthalate, chlordane; acetone, cadmium, copper, arsenic in groundwater
- 6. **Costa Rica 5379, B1667JUU** Pdo. de Malvinas Argentinas, Buenos Aires □ Argentina: toluene, chromium and total phenols in groundwater.
- 7. Nilles, Germany Moselweinstr, 34 & 32, 54249 Tritteneheim, Germany PHCs and degraded PHC byproducts in soil and groundwater due to historical USTs or ASTs
- 8. Aludisc 520 East Railroad Street, Clinton, NC 1,1-Dichloroethane (1,1-DCA), 1,2-Dichloroethane (1,2-DCA), 1,1-Dichloroethylene (1,1-DCE), methylene chloride, 1,1,1 trichloroethane (TCA), tetrachloroethylene (PCE), and trichloroethylene (TCE) in groundwater as well as all breakdown daughter products related to the above mentioned contaminants

All other terms and conditions of this Policy remain unchanged.



### LOCATION-SPECIFIC PRE-EXISTING POLLUTION CONDITIONS THIRD-PARTY CLAIMS COVERAGE (Divested Properties – Full Retro) ENDORSEMENT (GPPL)

| Named Insured CCL Industries Inc. |                              | Endorsement Number 33                          |                                              |
|-----------------------------------|------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621         | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| Issued By (Name ACE INA Ins       | of Insurance Company) urance |                                                |                                              |

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

The <code>insured</code> and the Insurer hereby agree to the following changes to this Policy:

Coverage is afforded pursuant to Coverage **B.** of this Policy, **only**, with respect to the covered locations identified in the Schedule of Covered Locations (Divested Locations), below. Further, with respect to the covered locations identified in the Schedule of Covered Locations (Divested Locations), below, Coverage **B.** of this Policy is hereby deleted in its entirety and replaced with the following:

### **B.** THIRD-PARTY CLAIMS COVERAGE (Coverage **B.**)

© Claims and associated © egal defence expenses in excess of the © self-insured retention arising out of a © ollution condition on, at, under, or migrating from a © overed location provided the © laim is first made during the © olicy period Any such © laim must be reported to the Insurer, in writing, during the © olicy period or any applicable © extended reporting period ■

It is a condition precedent to coverage afforded pursuant to this Coverage **B.** that all pollution conditions first commenced, in whole or in part, prior to the date the covered location has been sold, abandoned, or given away by any insured or foreign subsidiary or was condemned.

### **Schedule of Covered Locations (Divested Locations)**

|     | <u>Location</u>                                                                  |
|-----|----------------------------------------------------------------------------------|
| 132 | 1008 Pacific Highway, Somersby, NSW, Australia                                   |
| 222 | 102 Tynte St. Adelaide South Australia                                           |
| 131 | 45 Kings Road, Hornsby, NSW, Australia                                           |
| 223 | Unit 1 & 8, Harcourt Estate, 809821 Botany Road, Rosebery NSW Australia 2018     |
| 195 | r. Alexandre Humberto Meletta, 602 – Jd. Pinheiros, Valinhos – Sāo Paulo, Brazil |
| 205 | Rua Comendador João Lucas, 215, Vinhedo, São Paulo                               |
| 3   | 10 Bethridge Road, Etobicoke, Ontario                                            |
| 22  | 1020 Islington Avenue, Etobicoke, Ontario                                        |
| 25  | 104 Jutland Road, Etobicoke, Ontario                                             |
| 17  | 105 Gordon Baker Road, Willowdale, Ontario                                       |
| 4   | 11 Bethridge Road, Rexdale, Ontario                                              |
| 9   | 11 Centennial Drive, Penetanguishene, Ontario                                    |
| 5   | 13 Bethridge Road, Rexdale, Ontario                                              |
| 30  | 149 Victoria Street, Barrie, Ontario                                             |
| 176 | 1500 rue Nobel, Boucherville, Québec                                             |
| 12  | 20 Curity Avenue, East York, Ontario                                             |
| 32  | 2000 Kipling Avenue, Rexdale, Ontario                                            |
| 42  | 23 Truman Road, Barrie, Ontario                                                  |
| 13  | 24 Curity Road, East York, Ontario                                               |
| 18  | 26 Hollinger Road, Toronto, Ontario                                              |
| 14  | 26 Waterman Avenue, East York, Ontario                                           |



| 24  | 2070 Mainway Duiya Duulington Ontovia                                           |
|-----|---------------------------------------------------------------------------------|
| 34  | 3070 Mainway Drive, Burlington, Ontario                                         |
| 33  | 3077 Mainway Drive, Burlington, Ontario                                         |
| 37  | 3325 North Service Road, Burlington, Ontario                                    |
| 19  | 340 Huronia Road, Barrie, Ontario                                               |
| 1   | 410 Avenue LaFleur, Ville La Sale, Québec                                       |
| 7   | 430 Steelcase Rd. E., Markham, Ontario (Pharmasol Laboratories)                 |
| 16  | 5090 Explorer Drive, Mississauga, Ontario                                       |
| 6   | 5490 Boul. Thimens, Suite 260, St. Laurent, Québec                              |
| 2   | 62 Belfield Road, Etobicoke, Ontario                                            |
| 10  | 626 Chester Road, Delta, B.C.                                                   |
| 11  | 630 Chester Road, Delta, B.C.                                                   |
| 29  | 78 Titan Road, Etobicoke, Ontario M8Z 2J8                                       |
| 38  | 80 Paramount Road, Winnipeg, Manitoba                                           |
| 26  | 8001 Keele Street, Concord, Ontario                                             |
| 15  | 81 Dowty Road, Ajax, Ontario                                                    |
| 20  | 81 Hymus Blvd., Pointe Claire, Québec                                           |
| 210 | 835 Fuller Avenue, Penetanguishine, ON                                          |
| 8   | 91 Caldari Road, Concord, Ontario                                               |
| 21  | 91 Hymus Blvd., Pointe Claire, Québec                                           |
| 28  | 910 Rowntree Dairy Rd., Units 23 & 24, Woodbridge, Ontario                      |
| 41  | 96 Scarsdale Road, Don Mills, Ontario (Office)                                  |
| 24  | 994 Islington Avenue, Etobicoke, Ontario                                        |
| 23  | 998 Islington Avenue, Etobicoke, Ontario                                        |
| 175 | Apex - 1490 rue Nobel, Unit F, Boucherville, Québec                             |
| 35  | McGregor & Arthur Street, Plan 101, Penetanguishene, Ontario                    |
| 39  | Part Lot 11 and 12, Etobicoke, Ontario                                          |
| 27  | Part Lot 25, Concession 1, Etobicoke, Ontario                                   |
| 144 | 1001 Gu Gao Road, Pudong, Shanghai 201208, P.R. China                           |
| 145 | 2005 Yang Gao Beir Road, Pudong, Shanghai, PRC201208 China                      |
| 226 | 28J Cross Region Plaza 899 Lingling Rd., Shanghai China 200030                  |
| 140 | 5 Esquinas de Tibas, Plaza de Copey, Apto. 1592, San Jose, Costa Rica           |
| 164 | Midtagaer 2, 2605 Bröndby, Denmark                                              |
| 165 | Midtagaer 21, 2605 Bröndby, Denmark                                             |
| 163 | Nyager 4, 2605 Bröndby, Denmark                                                 |
| 168 | Toldbodgate 96, 8900 Randers, Denmark                                           |
| 234 | Kirjolantie 7, 21200 Raisio, Finland (moved from Veistämönaukio 1-3, FIN-20 100 |
|     | Turku)                                                                          |
| 173 | Veistamonaukio 1-3, Fin-20 100 Turku, Finland                                   |
| 148 | 33/39 Rue Marcel Dassault, 93147 Bondy Cedex, France                            |
| 152 | Bâtiment 3, 68 rue de Lille, 59710 Avelin, France                               |
| 154 | 10 Fockestrasse, Laupheim, Germany                                              |
| 125 | 11 Fockestrasse, Laupheim, Germany                                              |
| 126 | 12 Fockestrasse, Laupheim, Germany                                              |
| 127 | 26 Fockestrasse, Laupheim, Germany                                              |
| 128 | 28 Fockestrasse, Laupheim, Germany                                              |
| 174 | Bachstelzenweg 8, D-26515 Wiefelstede/Metjendorf, Germany                       |
| 133 | Alessandro Volta No. 7 (C&E), Parque Industrial, Mexico                         |
| 135 | Calle de Cafetal No. 162-A, Col. Granjas de Mexico, Iztacalco, Mexico D.F.      |
| 137 | Calle de Cafetal No. 165B, Col. Granjas de Mexico, Iztacalco, Mexico D.F.       |
| 138 | Calle de Centeno No. 485, Col. Granjas de Mexico, Iztacalco, Mexico D.F.        |
| 139 | Calle Lateral No. 20 Av., Tequesquinal, Mexico                                  |
| 236 | Centeno No. 613, Granjas Mexico, Delegacion Iztacalco, Mexico, D.F. 08400       |
|     |                                                                                 |
| 141 | Guillermo Marconi No. 8 (Adirud), Parque Industrial, Mexico                     |



| 143 | Lot No. 2 Manzana XIII, Parque Industrial Cuautla, Tlayecac Ciudad Ayala, Mexico |
|-----|----------------------------------------------------------------------------------|
| 136 | Pino 588 G, Colonia El Arenal Azcapotzalco, Mexico D.F.                          |
| 149 | Bergveste 14, 3993 Houten, The Netherlands                                       |
| 170 | Trollasveien 6, N-1410 Kolbotn, Norway                                           |
| 171 | U1. Borowskiego 2. Pok 220, PL-03-475, Poland                                    |
| 172 | u1. Gdy'nska 31/33, PL-61-016 Poznan, Poland                                     |
| 237 | ul. Grzybowska 80/82, 00-844 Warzawa, Poland                                     |
| 238 | Obvodny kanal emb. 93a, Ilt.A., office 607 St. Petersburg 191119                 |
| 239 | 4 Planken Park, 22 Planken Drive, Plankenburg, Stellenbosh 7600 South Africa     |
| 220 | Unit 14, Wendywood Commercial Centre, 1 Daphny Street, Wendywood, South          |
|     | Africa 2090                                                                      |
| 122 | 10-11 Arkwright Rd., Scunthorpe, UK                                              |
| 119 | 1-2 Arkwright Rd., Runcorn, UK                                                   |
| 146 | 15 Cliffe Industral Estate, Lewes, England                                       |
| 123 | 4 Akinson's Way, Foxhills Industrial Park, Scunthorpe, UK                        |
| 120 | 5-8 Arkwright Rd., Runcorn, UK                                                   |
| 124 | 6 Akinson's Way, Foxhills Industrial Park, Scunthorpe, UK                        |
| 130 | 6 Seymour Court, Manor Park, Runcorn, Cheshire WA7 1SY, UK                       |
| 117 | 8th Avenue Fixborough Industrial Estate, Scunthorpe, UK                          |
| 121 | 9 Arkwright Rd., Runcorn, UK                                                     |
| 118 | Abbey Ct. Menasha Way, Scunthorpe, UK                                            |
| 190 | Consort Way, Burgess Hill, West Sussex RH15 9YS, United Kingdom                  |
| 147 | Ingram Row, Leeds, England LS11 9AU                                              |
| 187 | Napier Road, Wardpark North, Cumbernauld, Glasgow, Scotland                      |
| 129 | Pond Lane, Parkfields, Wolverhampton, UK                                         |
| 116 | South Humberside Industrial Estate, Grimsby, UK                                  |
| 159 | Unit B, Cefndy Rd., Employment Park, Rhyl, Wales LL182TT                         |
| 49  | 1 American Way, Sharon, PA U.S.A.                                                |
| 52  | 1 Blue Hill Plaza, Pearl River, NY U.S.A.                                        |
| 208 | 10 Council Drive, Wheatland, PA 16161                                            |
| 69  | 1073 Industrial Rd., Bldg. E, Cold Spring, KY 41076 U.S.A.                       |
| 103 | 1100 Touhy Ave., Elk Grove Village, III U.S.A.                                   |
| 102 | 11328 Sunrise Gold Cir. Rancho, Cordoba, CA U.S.A.                               |
| 90  | 123 Pike St., Port, Jervis, NY U.S.A.                                            |
| 189 | 124-126 Point West Boulevard, St. Charles, MO 63303, USA                         |
| 86  | 1408 North Minnesota Ave., Sioux Fall, S.D. 57104 U.S.A.                         |
| 78  | 1500 McConnell Rd., Woodstock, III U.S.A.                                        |
| 185 | 1515 Garnet Mine Rd., Boothwyn, PA                                               |
| 96  | 1616 S. California Ave., Monrovia, CA 91016 U.S.A.                               |
| 51  | 165 Bank St., Hightstown, NJ 08520 U.S.A.                                        |
| 99  | 1725 South 3rd St., Memphis, Tenn. 38109 U.S.A.                                  |
| 105 | 1825 Underwood, Delran, NJ, U.S.A.                                               |
| 87  | 1925 Wright Ave., La Verne, CA 91750 U.S.A.                                      |
| 50  | 20 Ashton Ave., Swedesboro, NJ 08085 U.S.A.                                      |
| 57  | 20 Controls Dr., Shelton, Connecticut, 06484 U.S.A.                              |
| 201 | 2003 Case Parkway South, Unit #3, Twinsburg, Ohio, USA                           |
| 211 | 2130 Broadway Road, Hermitage, PA 16148                                          |
| 44  | 2300 4th & Townsend, Chester PA U.S.A.                                           |
| 115 | 2300 Wisconsin Ave., Downers Grove, ILL U.S.A.                                   |
| 77  | 235 Martin Rd., Cumberland, RI U.S.A.                                            |
| 112 | 2501 W. Rosecrans Avenue, Los Angeles, CA 90059 U.S.A.                           |
| 244 | 2617 Commerce Circle, Irondale, Alabama USA                                      |



| GE.        | 262 Cayooo Ayo Momphia TALLIS A                                                    |
|------------|------------------------------------------------------------------------------------|
| 65         | 263 Gayoso Ave., Memphis, TN U.S.A.                                                |
| 62         | 263-265 E. Belz Blvd., Memphis, TN U.S.A.                                          |
| 54         | 2702 Cindel Dr., Unit 3A Delran, Cinnaminson, NJ U.S.A.                            |
| 79         | 278 Monmouth St., Hightstown, NJ U.S.A.                                            |
| 106        | 285 Union Ave., Memphis, TN 38103 U.S.A.                                           |
| 73         | 3 Linda Lane, Suite B, Vinceton, NY U.S.A.                                         |
| 58         | 30 Controls Dr., Shelton, Connecticut, 06484 U.S.A.                                |
| 55         | 3367 Commissary, Plattsburgh, Airbase, NY 12901 U.S.A.                             |
| 81         | 3642 Muddy Creek Rd., Cincinnati, OH U.S.A.                                        |
| 113        | 3703 W. Tickman St., Sioux Falls, SD U.S.A.                                        |
| 72         | 4 Linda Lane, Southampton, NY U.S.A.                                               |
| 91         | 4 Plant St., Plattsburgh, NY 12901 U.S.A.                                          |
| 63         | 4014 E. Broadway Rd., Suite 410, Phoenix, AZ 85040 U.S.A.                          |
| 61         | 4083 E. Airport Dr., Ontario, CA 91761 U.S.A.                                      |
| 64         | 4110 East Wood Street, Phoenix, AZ U.S.A.                                          |
| 97         | 4131 S. State St., Chicago, III U.S.A.                                             |
| 94         | 425 Rose Lane (Riverwood), Matamoras, PA U.S.A.                                    |
| 43         | 4460 40th St., S.E., Grand Rapids, MI U.S.A.                                       |
| 84         | 450 N. Sheridan St., Corona, CA U.S.A.                                             |
| 45         | 4607 4th Avenue N., Sioux Falls SD U.S.A.                                          |
| 88         | 500 Park Blvd., Ste. 776, Itasca, ILL 6014303121 U.S.A.                            |
| 111        | 50000 W. Pontiac Trail, Wixom, MI U.S.A.                                           |
| 92         | 50050 Pontiac Trail, Wixom, MI U.S.A.                                              |
| 80         | 5500 Muddy Creek Rd., Cincinnati, OH U.S.A.                                        |
| 217        | 600 East 52nd St. N., Sioux Falls, SD, USA                                         |
| 110        | 6100 W. Howard St., Niles, III U.S.A.                                              |
| 83         | 6133 N. River Rd., Rosemont, III U.S.A.                                            |
| 104        | 6310-6330 Touhy Ave., Niles, III U.S.A.                                            |
| 66         | 64 Genung St., Middleton, NY U.S.A.                                                |
| 53         | 717 C-E Fellowship Rd., Mt. Laurel, NJ 08054 U.S.A.                                |
| 89         | 77 Park St., Montclair, NJ U.S.A.                                                  |
| <i>7</i> 5 | 8 Marlen Drive, Robbinsville, NJ                                                   |
| 209        | 801 Technology Way, Libertyville, IL 60048                                         |
| 82         | 810 N. Main St., Harrisonburg, VA U.S.A.                                           |
| 59         | 855 Crowe Rd., E. Stroudsburg, PA 18301 U.S.A.                                     |
| 100        | 8800 South Street, Charlotte, NC 28273 U.S.A.                                      |
| 228        | 901 Precision Drive, Denton, TX 76201                                              |
| 151        | 901 Technology Way, Libertyville, Illinois 60048                                   |
| 47         | 9th & Hawkins St., Carrollton, KY 41008-0326 U.S.A.                                |
| 48         | Airport Addition to Sioux Falls, SD Lot 2, Block 53 U.S.A.                         |
| 46         | Belle Drive, Harrisonburg, VA                                                      |
| 212        | Block 21.01, Portion of Lots 4,5,6,7 and 11, Borough of Hightstown, Mercer County, |
|            | New Jersey                                                                         |
| 60         | Dean Memorial Drive, P.O. Box 7282, Cumberland, RI 02864 U.S.A.                    |
| 70         | Jervis St. & Menard Ave., Niles, III (Parking Lot) U.S.A.                          |
| 71         | King & Lumber Sts., Port Jervis, NY U.S.A.                                         |
| 227        | Lisa Packaging, Creamery Road, Ellenville, NY                                      |
| 85         | Neversink Ave., Port Jervis, NY U.S.A.                                             |
| 93         | R.R. #1, Terre Haute, Ind. U.S.A. (2001 North Hunt Street)                         |
| 95         | Ross Lane, Danville, III U.S.A.                                                    |
| 98         | Skyline Dr., PT., Jervis, NY U.S.A.                                                |
| 180        | Tract A, Lot 6 in Block 3 of Sioux Empire Three East Addition, East Amidon St.,    |
| ,50        |                                                                                    |
|            | Sioux Falls, SD                                                                    |



| 276 | 4800 North Federal Highway, Suite 205 D, Boca Raton, FL 33431                        |  |
|-----|--------------------------------------------------------------------------------------|--|
| 277 | 150 North Martingale Road, Suite 260, Schaumburg, IL 60173                           |  |
| 278 | 125 Half Mile Road, Suite 200, Red Bank, NJ 07701-6749                               |  |
| 279 | 250 & 252 Ponce De Leon Ave, Hato Rey, Puerto Rico 918                               |  |
| 280 | 1895 Crooks Road, Troy, MI 48099                                                     |  |
| 284 | 1840 Clements Road, Pickering, ON L1W 3R8                                            |  |
| 285 | Ruta Panamericana 28047, Don Torcuato, B1611HGF, Buenos Aires, Argentina             |  |
| 286 | Parque Industrial Sur, Calle 108, entre 2 y 4, Codigo Postal: D5700LD, San Luis,     |  |
|     | Argentina                                                                            |  |
| 287 | Hauptplatz 19, Wr. Neustadt, Vienna, Austria                                         |  |
| 288 | Cadastral Plot No 35, Industrivej 59, Ronnede, Denmark DK-4683                       |  |
| 294 | 131-13 Handa Hinoe, Kanedacho, Shikokuchuo, Ehime 799-0122 Japan                     |  |
| 304 | IPKAS Sitesi 3. Kısım, B Blok No:11 İkitelli Organize Sanayi Bölgesi 34303 Istanbul, |  |
|     | Turkey                                                                               |  |

All other terms and conditions of this Policy remain unchanged.



### TRADE OR ECONOMIC SANCTIONS ENDORSEMENT

| Named Insured CCL Industries Inc.                       |                         | Endorsement Number 33                          |                                              |  |
|---------------------------------------------------------|-------------------------|------------------------------------------------|----------------------------------------------|--|
| Policy Symbol EIL                                       | Policy Number<br>333621 | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |  |
| Issued By (Name of Insurance Company) ACE INA Insurance |                         |                                                |                                              |  |

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This insurance does not apply to the extent that trade or economic sanctions or other laws or regulations prohibit us from providing insurance, including, but not limited to, the payment of claims. All other terms and conditions of policy remain unchanged.

ALL-21101 (11 06) Page 1 of 1



### SIGNATURE ENDORSEMENT

| Named Insured CCL Industries Inc. |                                     | Endorsement Number 35                          |                                              |
|-----------------------------------|-------------------------------------|------------------------------------------------|----------------------------------------------|
| Policy Symbol<br>EIL              | Policy Number 333621                | Policy Period March 31, 2015 to March 31, 2018 | Effective Date of Endorsement March 31, 2015 |
| ACE INA Ins                       | of Insurance Company) <b>Urance</b> |                                                | 1                                            |

THE ONLY SIGNATURES APPLICABLE TO THIS POLICY ARE THOSE REPRESENTING THE COMPANY NAMED ON THE FIRST PAGE OF THE DECLARATIONS.

ACE INA Insurance Assurance ACE INA

The Telus Tower, 1400 □ 25 York Street, Toronto, Ontario, M5J 2V5, Canada

Authorized Agent

A. Andrew Hollenberg President

PFC-39723 (02 13) Page 1 of 1

"XT/L"

# PUERTO RICO INDUSTRIAL DEVELOPMENT COMPANY

# SUPPLEMENT AND AMENDMENT TO LEASE CONTRACT

PROJECT NO.: S-0551-0-60 & S-0551-1-63 LOCATION: SAN GERMAN, PUERTO RICO

ldings located . S-0113-0-52 the following and INSERT CORPORATION OF into by referred COMPANY "TENANT") subsequently amended (hereinafter rring certain landsite and buildings to, identified as Project No. S-01 (hereinafter referred to as the "LANDLORD") and INSERT CORPORA PR (INSERT CO.), INC. (hereinafter referred to as the "TENAN agree to supplement and amend a certain Lease Contract entered them on April 23, 1987, as subsequently amended (hereinafter referm on April 23, 1987, as subsequently amended (hereinafter referm). DEVELOPMENT in Premises"), and RICO INDUSTRIAL

"LANDLORD") and "Original the covering Rico, PUERTO to as "Contract"), " Germán, Puert Ifter referred COMES (hereinafter the agree to them on A San as ဌ

oject No. S-(hereinafter fully described and lets unto TENANT, and identified as Project TENANT, Rico hereby leases from LANDLORD the Premises identified in 0551-0-60 & S-0551-1-63 located at San Germán, Puerto referred to as the "Additional Premises"), which are from it, which are from it, which are from it.

ij exclusively and (SIC. ises shall be used PRINTED MATERIALS (S Premises o T manufacture TWO:

sof (Sthe"Additional r a period building ( that covering 20 for the years, commencing on the "Additional Premises" for years, commencing on the date of delivery of the 0 & S-0551-1-63). The term of the Lease Contract 1 Premises" (S-0113-0-52), is hereby amended, at the same date of the term of lease for the " (S-0051-0-60 & S-0051-1-63). THREE: 0551-0-60 "Original expires at Premises" an (10) y 51-0-60

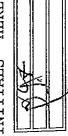
Contract O. This rental for the first shall sixty TENANT FOUR: Commencing on the first day of the following month after t commencement of the term of this Supplement to Lease Contract, TENA shall pay to LANDLORD an annual rental for the "Additional Premises" \$2.20 per square foot of gross building area during the first six (60) months of the term of this lease and of \$2.75 per square foot gross building area during the last sixty (60) months. This rent shall be paid in equal monthly installments of \$6,946.86 for the first sixty (60) months and of \$8,683.57 for the last sixty (60) months. Fithe "Original Premises" (Project Number S-0113-0-0-52) TENANT shapay LANDLORD the annual rental established in the Lease Contra shall that in the on an Germán region c as hereby amended. subsequently ın Germán reg San and the term, l rental 1987, an the α U April 23, 19 expiration of rental the executed annual

paid or at date ono TENANT further or or shall be j office, o: that the to, prior The monthly installments for rent specified herein advance on the first day of each month at LANDLORD'S other place that LANDLORD may notify. In the event commencement does not fall on the first of the month, rees to pay the first partial monthly installments, pr commencement of commend agrees the dat any of

the y TENANT to reserve Project February 21, 1995, b) the in certified check with the this contract ď FIVE: The deposit required under the provisions of this shall be complied with by TENANT as hereinafter specified: amount of \$1,736.72 previously deposited by TENANT to reserve S-0551-0-60 & S-0551-1-63, CR #134222 of February 21, 1995 amount of \$8,266.07 shall be paid by TENANT in certified check execution of this Supplement to Lease Contract.

02/35179 8 8,46.70

INITIALS HERE



CATIC OS

its the included and the return of the Premises in proper condition at the termination of this Lease. On said termination, if TENANT is not in default of any of the terms and conditions of this Contract, LANDLORD will return to TENANT the sum of money, if any, held pursuant to this provision, after LANDLORD's Environmental Office certifies that there are no environmental deficiencies as a result of TENANT's manufacturing herein to, of t clauses limited shall guarantee the compliance by this Contract, particularly, but not the compliance of the environmental demised Premises. obligations, under the payment of rent, the included and the retermination of this default of any of the will return to TENAL Deposit on the of commencement of the the date of c \$231,665.00. on of agrees to have capitalization TENANT ൯ Lease of

the from months ø (6) m with SIX equipment within and install machinery ţ agrees manufacturing TENANT \$1,208,803.00. Likewise date same d least

and within le term, to The this installation (50)fifty t υţο This shall not include the cost of transportation and instal thereof, nor its ordinary depreciation after installation; and eighteen (18) months from the date of commencement of the teemploy a minimum of fifty (50) persons in addition to the fift persons required to be employed at the original premises. established addition in shall be rnt levels employment ១១១ thereof and machinery extension capitalization, m original Contract any

and/or to LANDLORD TENANT SEVEN: All notices, demands, approvals, consents communications herein required or permitted shall be in writing. mail, should be certified and to the following addresses; to LAN P.O. Box 362350, San Juan, Puerto Rico 00936-2350. To TENAN 00863, Rico Puerto Germán, San Juan, 377, notices, Box 350, P.0. com... mail, s.. p.O. Box 3b... EIGHT: TENANT must comply, if required, with the rules and regulations of pretreatment established by the Puerto Rico Aqueduct and Sewer Authority, the Environmental Quality Board and the Environmental Protection Agency related to the industrial effluent discharged into the sanitary sewer system and their final disposition. Also, any improvement necessary to provide pre-treatment facilities for the above mentioned effluents shall be at TENANT'S own cost and expense and shall be conducted in coordination with LANDLORD's Engineering and expense and Engineering Maintenance Departments.

in the it shall be installed in and Maintenance Departments. It is hereby agreed and understood that TENANT, at its o expense, shall install an air conditioning system in temises, in the event TENANT needs to use and/or install it such air conditioning system shall be considered as g system and it LANDLORD'S Engineering LANDLORD, from its process. Such special facility coordination with demised premises, and cost

ο£ Returns date tax i the Corporate Tax does not have any to, or is complying  $^{\mathsf{the}}$ at that guarantees Rico, submitted and 5) years arof Puerto 1 approved. and has (2) Commonwealth <u>ب</u> payment plan duly Contract it last five ( certifies TENANT the during the this subscribing Forms durind ๙ TEN pending w

execution rance compensation, social security (as approved. the date of Contract it has paid unemployment at the dat Contract it has paid unemployment insurance disability insurance, and the driver's sociate); or is complying with a payment plan duly and the complete of the driver. TENANT also temporary dis applicable); this

of Of ondition incorrect ential ຶ່ນ ದದ certification Contract. this this that above cancel acknowledges the may LANDLORD and TENANT Contract

and and and allinformation request, environmenta in order leased premas LANDLORD areas documents under Commonwealth access to all areas with ANT hereby agrees to provide access to all a premises for these purposes, upon LANDLORD's ovide access to all books, records, docume tept any confidential and/or privileged inf secrets) which LANDLORD may deem necessary in compliance as contract, as  $\mathsf{the}$ audit all aspects TENANT's Co e term assess ar. ses and TENAM. and regulations, us reto provide a to the right erm of thi as herein stated and LANDLORD reserves premises the to a TENANT hereby deem necessary, in order t condition of said premi environmental legislation structures of the premises and to also provide acceinstruments (except any ne during in order the premises time trade environmental ţ federal law; ELEVEN: audit and/or any time fullyfrom

other this any required ဌ in addition pe p may furnish to LANDLORD, that instruments or shall documents TWELVE: TENANT information, Contract:

- that by onic or to the Puerto Rico Environmental cessor agency, and copies of all Environmental received, telephonic against Prompt written notice or call, relevant law or regulation would require any oral, telepant written notice or communication to the US Environ Protection Agency and/or to the Puerto Rico Environ Quality Board, or any successor agency, and copies orders, notices or other communications and reports recorders, notices or other communications any such event, and resonts recorders, notices or other communications and reports recorders, notices or other communications and responding the results of the contraction with any such event, and in a seain used by TENANT; against occupied or property owned, ф (д
- Quarterly certifications subscribed by an authorized representative designated by TENANT, as to the environmental condition of the leased premises, containing the information required by LANDLORD, which is specified in the form included as Schedule "B" of this contract, or any subsequent thereto; modification  $\hat{\mathbf{q}}$
- TENANT'S regulations ဌ and relating legislation documents laws. commonwealth. environmental and information and with compliance wir other ΰ

by it to be used, as a depository of, or as a dump for raw material, te materials of any kind (including hazardous waste) as defined by Resource Conservation and Recovery Act (RCRA), toxic or non-toxic stances. TENANT shall neither make any excavation for the purpose storing, putting away and/or concealing raw materials or strial of any kind. Underground it is a material of any kind. TENANT shall, in thoroughly - TENANT at TENANT's own cost and expense, maintain the Premises clean conditions; free from solid waste, rubbish, garbage obstructions. Specifically TENANT shall not use said allow it to be used, as a depository of, or as a dump for waste materials of any kind (including hereafter) specifically prohibited. substances. material the ο£

condition. substances theapplicable // activities
hazardous com lammable or toxic complying with all regulations authorize any r result in a ha ises flammable c laws and the proper precautions and and/or Municipal laws and not conduct or auth contribute to or res ore in the Premises which may cont all not store not shall shall not State taking TENANT Premises TENANT sh Federal, without

notify of any storage copyshall require the ๙ TENANT wastes, TENANT h LANDLORD with activities. at the Premises furnish and/or toxic materials and/or in writing. TENANT shall furnis storage such activities for issued Should TENANT's permits hazardous LANDLORD i

Ľ lead any, Statement, operating procedures within the Premises ms, conditions and commitments, if in any Environments. reviewed analogous document revie Administration/LANDLORD connection agency or any other governmental at TENANT's or op. terms, compliance with the term compliance with the term contained or specified Environmental Assessment of the Puerto Rico Economic Dagency or by any other capproval of the

lawsuit, Latory or any lawsuregulatory environmentally-related σĘ copy of y other ๙ with cause LANDLORD anXshow 10 serve TENANT order also T shall alsviolation, (ion against of vio TENANT notice legal issue

or any permits solid waste stored, hazardous generated, οĘ for any a copy of discharge, o H and used with water ve LANDLORD with emissions, water ent or disposal, by-products treatment serve air em o H materials shall also TENANT for disposed storage, raw treated and/or waste TENANT င္ generation, toxic

WDLORD with a copy of any Life, with any regulatory agency on any issue, including but not limited to any surface water pollution, hazardous or """ nation. The notice to LANDLORD is the pertinent TENANT shall also serve LANDLORD with a notice to be filed by TENANT with any recenvironmentally related case or issue, includinater involving underground or surface water toxic waste spillage and ground contamination. shall take place no later than the actual for the regulatory agency. with documents

ing or causing any default under the TENANT further agrees and undertakes to install in the Premises, at its own cost and expense, such devices as may be necessary to prevent that any hazard, which may be caused or created by its operations may affect the environmental integrity of the landsite or may affect or cause any nuisance to adjacent TENANTS or the community in general, it being agreed and understood that creating or causing any such nuisance, shall be deemed an additional event of default under the Contract y all.
general, lt channisance, shall

TENANT further agrees and undertakes to abide by and comply with any and all rules, regulations and requirements of the Fire Department relative to the use and storage of raw materials, finished products or inflammable materials, or of any other governmental agency, having jurisdiction thereon, applicable to TENANT's operations at the Premises, and if requested by LANDLORD, shall submit evidence of such compliance; it being agreed and understood that noncompliance by TENANT with any of the aforementioned rules, regulations and requirements shall be deemed, in each of such cases, an additional event of default under the provisions of this Contract.

TENANT agrees to indemnify, defend and hold harmless LANDLORD from and against and in respect of any and all claims, damages, losses, liabilities and expenses, lawsuits, deficiencies, interest, fines, penalties, attorneys' and consultants fees, and all amounts paid in defense or settlement of the foregoing, which may be imposed upon or incurred by LANDLORD or asserted against LANDLORD by any other party or parties (including government agencies) in connection with any environmental conditions or any noncompliance with any federal, state, or local environmental laws, regulations or policies, caused by or resulting from activities conducted at the additional premises by TENANT after the date of this agreement. unducted at agreement.

ms, and its respective representatives, and as "TENANT", from and and hold harmless TENANT, LANDLORD agrees to indemnify, defend and hold hadiaries, affiliates, successors, and assigns, tors, officers, employees, shareholders, rese (hereinafter collectively referred to as ' subsidiaries, directors. of directors agents (

n with any discovered) in or parties (including government egonomeries (whether now known or hereafter discovered) or any activity or non-compliance with any federal, state, or local environmental laws, regulations or policies, caused by or resulting from activities conducted before the date of this Agreement. Without limiting the generality of the foregoing, LANDLORD's indemnity shall also cover the past current or future activities of LANDLORD, or any person holding an interest in or having a right to possession of any portion of the Additional Premises through LANDLORD. or against and in respect of any and all claims, damages, losseliabilities and expenses, lawsuits, deficiencies, interest, fine penalties, attorneys' and consultants fees, and all amounts paid defense or settlement of the foregoing, which may be imposed upon incurred by TENANT or asserted against TENANT by any other party parties (including government agencies) in connection with a defense \_\_\_\_including gove\_\_\_\_

t e any money to name and/or neither he TENANT hereby guarantees to LANDLORD, that, tockholders, in case of a corporation, owes other corporate any or name corporate stockholders, its under FOURTEEN: its or any or LANDLORD person.

in previous οŧ dispose the r, lease, burden or operations without transfer its on นรed FIFTEEN: TENANT shall not to LANDLORD. equipment the written notice o£ ма⊻

iny way i consent any withheld. previous written in transfer unreasonably or sell, lease without the not be sell, not y other tenant consent shall shall SIXTEEN: TENANT tions to any oth which operations LANDLORD, w

distribution conductors electrical di e, conduits, c i in PRIDCO's the Additional Premises eter base, indicated i ลุม 200 AMP metor ខ្លួ for boxes System Drawings consisting of a cles and junction LANDLORD SEVENTEEN: system consis receptacles as Distribution 8

the Power construct þe connect Electrical t t exbense' connection to ent required Puerto Rico and such cost of PREPA. and/or install all necessary equipment building's electrical system to the Pue Authority's electrical distribution lines, in compliance with the remains

the ij LANDLORD to improvements notify shall any non-structural TENANT that ' ANDLORD agrees undertaking ar LANDLORD writing before under' "Additional Facilities" NINETEEN:

Landlord the Purchase consideration condition with the f assessing taken into c the into in if it were nto a Purchase or purposes of shall not be to of рe for the Additional Premises, for purposerice, the improvements thereto shall nand the property shall be considered as into enters Agreement. Tenant ¥-I this TWENTY: οĘ date

carry ain a out its operations it is necessary to use, operate and maintaprinting machine; it is hereby specifically agreed and understood order to in represented that to use, operat as TENANT TWENTY ONE: Inasmuch

- with coordination ij made рe shall installation Such (1) LANDLORD;
- om the Environmental to operate the said abide by and comply e said Board for such from request and oblan. In the necessary permit to and, thereafter, shall a TENANT shall request and obtain from Quality Board, the necessary permit installation and, thereafter, shall with all requirements imposed by the operations. (5)



pliance by additional compliance an d that non-constitute non-Contract. this understood shall οĘ provisions provisions and agreed further agrene foregoing It under the being ru default with of TENANT

TWENTY TWO: Anything herein to the contrary notwithstanding, the parties have agreed and understood that the following special facilities, shall be utilized by TEMANT "AS IS" and "WHERE IS", free of charge, but TENANT shall repair and maintain said special facilities as provided under the applicable provisions of the Contract: provisions applicable the under provided

### A) SPRINKLER SYSTEMS

ered by the applicable integral covered be appl aп deemed and cov may facilities shall be as such subject to they as as such s demised premises and conditions of this special above mentioned conditions the and The ų O thereto terms part

the time of "Additional the manufacturing ith the design and that at of the with (of for consistent warrant Lease ( hereby f this may be used by wich are deemed Jo LANDLORD does term the premises intended w οĘ the commencement Premises"), the pr purposes herein int specifications. THREE: TWENTY

made ο£ part рe any shall necessary repair sh repair or may be Notwithstanding, LANDLORD agrees to paint atterior paint of the building as it may be Subsequently, any additional painting or ding to the terms of the Contract. exterior according the

ဌ Contract amended force ones Lease the and full lons of the Last supplemented and hereof and andin remain l terms and conditions 1987 shall be deemed supent with the terms he shall amended with and ry FOUR: All te on April 23, 1987 id inconsistent supplemented an executed on the extend TWENTY expressly effect

within thirty certificate of ng or ratifying authorizing LANDLORD ๙ submit to LANDLC of this Contract either TWENTY FIVE: TENANT agrees to su 10) days from the date of execution of resolution of its Board of Directors this Contract. οŧ execution 30) the

signed TENAME bave respectively | 5 day of August, 1995 ) and this LANDLORD Lease, EOF, 1 this WHEREOF authority IN WITNESS proper nodn

DEVELOPMENT COMPANY INC (INSERTCO) ₽R ( 6322 ۲ O INDUSTRIAL 66 - 039cdrPoration RICO INSERT PUERTO BY: Bĭ

DESCRIPTION OF A PARCEL OF LAND LOCATED AT THE RETIRO INDUSTRIAL PARK, SAN GERMAN, PUERTO RICO (LOT WHERE PROJECTS S-0551-0-60 AND S-0551-1-63 ARE LOCATED)

Industrial at the Retiro and #6, located Parcel of land, Lots #4 a San Germán, Puerto Rico. Park, of Mr. Ernesto Quiñones same industrial park; by park; by the West, with "B" of the same. Sambolín; by the North, with property the East, with lot #10 of the same industrial Lot #1 of the same industrial

DESCRIPTION OF BUILDING NO. S-0551-0-60 LOCATED AT SAN GERMAN, PUERTO RICO

| STRUCTURE                        | •• | Pitched type building consisting of reinforced concrete foundations, structural steel columns and girders supporting 30 feet long steel joists which in turn support 22 gage standard galvanized steel deck. Roof ventilators are provided.                                                                                |
|----------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INSULATION AND<br>WATER PROOFING |    | One (1) inch fiber glass insulation panel and waterproofing system consisting of a three-ply built up roof.                                                                                                                                                                                                                |
| DIMENSIONS                       | •• | Structure consists of a main floor 120' -10" x 180' -8" out to out dimensions with an area of 21,830.36 square feet; and one (1) lean-to area 45' -2 x 11' -0" for an area of 496.87 square feet; one entrance porch 21' -3" x 9' -3" for an area of 196.56 square feet, for a total covered area of 22523.79 square feet. |
| FLOOR                            | •• | Consists of 4" thick reinforced concrete slab with a monolithic finish designed for a live load of 150 pounds per square feet.                                                                                                                                                                                             |
| WALLS                            | •• | Exterior are concrete block plastered on both sides.                                                                                                                                                                                                                                                                       |

exterior Has plywood and metal of Interiors are made of are industrial type roll-up metal doors 10 DOORS

and

plastered a 6' -1" ]

are concrete block boths sides with glazed finish wains

are

Interiors

painted on sprayed-on

g

wainscoat

the throughout -0etal ones. -0" x 10' louvers 101 aluminium miami Are miami building. WINDOWS

HERE INITIALS



CLEARANCE

finish e side the fromà -0beam 12 o£ ភូន building i lower part lower the to Inside floor eaves.

09--0551-1-RICO NO. S-PUERTO BUILDING GERMAN, SAN DESCRIPTION LOCATED AT 8

STRUCTURE

Pitched type building consisting of reinforced concrete foundations, structural steel columns and girders supporting 30 feet long steel joists which in turn support 22 gage standard galvanized steel deck. Roof ventilators are provided.

N AND PROOFING INSULATION WATER I

and threevatersproofing system consisting of a thruply built up roof.

DIMENSIONS

Structure consists of a main floor 120' -0" x 120' -10" out to out dimensions with an area of 14,620.43 square feet; and one (1) lean-to area 31' -2 x 10' -6" for an area of 327.29 square feet; a covered loading platform 26'-0" x 16' -2" for an area of 420.42 square feet, for an area of 420.42 square feet, for a total covered area of 15,368.14 square feet.

FLOOR

slab live sts of 4" thick reinforced concrete a monolithic finish designed for a of 150 pounds per square feet. Consists with a moload of 1

WALLS

both ц О Exterior are concrete block plastered sides.

high and plastered a 6' -1" 1 wainscoat ៧ block with sides v finish concrete boths glazed are painted on sprayed-on Interiors

DOORS

of plywoods and exterior metal ones. Has one 10' -0" x 10' -0". Has -0" 10. of l type doors 1 made are industrial roll-up metal d are Interiors

WINDOWS

the throughout louvers aluminium miami Are miam. building. ••

CLEARANCE

finish side the from at -0beam 12° is part building lower the to Inside floor eaves.

INITIALS

## WITH COMPLIANCE REPORT OF ENVIRONMENTAL REQUIREMENTS

|                  |         | RENEWAL DATE<br>(IF APPLY) |
|------------------|---------|----------------------------|
| ရ<br>            |         | Z                          |
|                  |         | EXPIRATION<br>E            |
| <del>1</del>     |         | E)<br>DATE                 |
| In the period of |         |                            |
| the              |         |                            |
| п                | PERMITS | PERMITS NUMBER             |
|                  | H       | Peri                       |

## II. COMPLIANCE ACTIONS

RESPONSE DATE OF DATE REFERENCE/CASE NUMBER

OF

### III. CERTIFICATION

I certify, under penalty of law, that this document was prepared under my supervicion and direction; and that was based in my investigation by the persons directly responsible of gathering the information, that the information here submitted is, according to my best judgment, certain, complete and precise.

RICO INDUSTRIAL DEVELOPMENT COMPANY 6.P.O. BOX 2350 SAN JUAN, PUERTO RICO 00936 PUERTO

LEASE CONTRACT // I

PROJECT # S LOCATION: S

7 S

AND RICO INDUSTRIAL DEVELOPMENT COMPANY CORPORATION OF P.R. (INSERTCO) INC. prid 23, ENTERED into on PUERTO INSERT THE AGREEMENT "LANDLORD" "TENANT", THIS AS

### WITNESSETH

and to as landsite Epigraph, hereinafter referred certain ત્ત 0 f owner the identified in the is LANDLORD WHEREAS, building,

has and TENANT TENANT, t t agreed to lease agreed to hire from LANDLORD the Premises. WHEREAS, LANDLORD has

foregoing premises, following: the the parties herein agree on this Lease subject to in consideration of THEREFORE, MON

### TERMS AND CONDITIONS

and TENANT described unto TENANT, the Premises which are fully hereby demises and lets from LANDLORD LANDLORD hereby leases ONE:

encumbrances, liens and/or the air rights of the Premises, are excepted and reserved Schedule saīd Schedule "A" hereto annexed and made a part hereof. The Premises are subject to the encumbra from appear may that any, ¥restrictions, Furthermore, to LANDLORD.

and occupied exclusively in TWO: The Premises shall be used and occupied manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insersial manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manufacture of insert manu the first of gross building area during the last sixty (60) month. rental of or on delivery of the Premises, whichever date occurs first. 4/24/27 area during an annual installments\_-₩ and of gross building to LANDLORD, of this Lease ----(SEE CLAUSE FIFTY)-monthly shall be paid in equal the term 0 6 TENANT shall pay foot square months of per foot This rental --/2/1/8-2--FOUR: (09) square

(60) months and of (60) months. ---- for the first sixty the last sixty for

on the first day of each month at LANDLORD'S office%(1) the The monthly installments for rent specified herein, shall be that In the event other place that LANDLORD may notify. advance ij م ب paid

K, \*(1) by map 1

TENANT, further agrees to pay the first partial monthly installments, prior to, or on the date of commencement. 22-19525 Challe Act FIVE: Simultaneously herewith TENANT shall deposit With TANDLORD y installments, prior the first of the month, of commencement does not fall on

amount of \$ 1,718.20----- in Certified Check.

to, the payment of rent and the return of the Premises in proper condition at the termination of this Lease. On said termination, if This deposit shall guarantee the fulfillment by TENANT oobligations, under this Contract, particularly, but not limited o f any of the terms and conditions of money, шns Contract, LANDLORD will return to TENANT the held pursuant to this provision. not in default of i.s

of commencement of a capitalization of \$288,297.00. to have on the date TENANT agrees this Lease term of

Likewise TENANT agrees to install within six (6) months from value the same date manufacturing machinery and equipment with a least \$ 297,729.00.

workers.\*(1 shall not include the cost of transportation and date of depreciation production (18) months from the 1 1 1 to employ a minimum of ordinary and within eighteen its nor commencement of the term, thereof, Thīs installation; Sixty (60)---installation

The aforementioned levels, shall be maintained throughout the term of this Lease or any extension thereof.

shall be in writing. If LANDLORD: G.P.O. Box 2350, San Juan, Puerto Rico 00936. To TENANT: addresses consents following approvals, communications herein required or permitted and to the demands, mail should be certified All notices, SEVEN:

00753 Mr. Alexis Rosado Díaz President P.O. Box 513 an Germán, Puerto Rico Telf- 892-4586 and 892-3

āll operating expenses, utilities, maintenance, expenses, insurance, taxes or any other cost, expenses or charges of any nature not specifically lease; it being the exclusive responsibility of TENANT to pay for shall be interpreted as or any other cost, expenses or charges of - This Lease assumed by LANDLORD hereunder. Net Lease

the time of the commencement of the term of this Lease, the Premises may be used by TENANT for the manufacturing purposes herein intended with the design and construction - LANDLORD does hereby warrant that accordance with the corresponding plans and specifications. NINE: Warranty as to use which are deemed consistent

LANDLORD \*: additions by or improvements to the Premises without the prior consent of alterations, all such alterations, additions or improvements made - TENANT shall make no Alterations and

 $(*, )^*(1)$  subject to the provisions of Article 25 of this Contract. (\*, \*, \*) which consent shall not be unreasonably withheld.

to remove of LANDLORD without additional consideration shall аs made, be the property of LANDLORD without additional conside shall remain upon and be surrendered with the Premises and o r expiration or earlier termination of to any right of LANDLORD to require removal and expenses own cost shall be at TENANT'S provided for hereinafter the à ereof subject TENANT

any interest in or lien upon specifications, if required, shall be filed with submit plans TENANT and delivered to LANDLORD consent for Before commencing any and approved by all governmental agencies having jurisdiction option, require TENANT to event TENANT asks for LANDLORD'S and specifications for said alteration. having required by the term of the mortgage. and the consent of any mortgagee shall be procured by alteration; LANDLORD may at its. and the plans ш Lease

and time, due regard being had to conditions, free and clear of provide a satisfy LANDLORD particularly described in Article THIRTY (30) hereof, but shall recite and refer to such work, and in addition or any other kind of lien, and in cost and expense, deliver to LANDLORD a General Accident Liability if the estimated cost of such work is more than FIVE THOUSAND Before commencing any such work, TENANT shall at TENANT'S such work within encumbrances, chattel mortgages and conditional bills of sale equal to the estimated alterations, changes, additions and improvements deliver to LANDLORD a surety bond, or a performance bond and Premises in lieu of separate guarantees for each such project. submitted other option TENANT shall TENANT'S own cost similar bond or blanket written guarantee in an amount sufficient to specifications sfactory to LANDLORD, in an amount equal to work, guaranteeing the completion of (\$5,000.00), TENANT shall, at materialmen liens, mechanics liens said plans and spe .ORD. At LANDLORD'S to LANDLORD, or a approved by LANDLORD. company acceptable accordance with said policy Policy more reasonable to all thereto,

bγ carrying insurance policies on said building, any, charged such work. TENANT shall pay the increased premium, if to cover the additional risk during the course of insurance companies

ELECTRICAL POWER all in conformity operations, at its own cost and expenses, construct and/or install S requirements. Such construction shall, in no event, by TENANT until after LANDLORD has approved the locati thereof, as well as the routing of the power line extension. Power Substation - If required by TENANT'S power substation and connect it to the PUERTO RICO EAUTHORITY (PREPA) distribution lines, for voltages up to PREPA transmission lines for voltage of 38 KV, with PREPA'S requirements. TENANT Shall, ELEVEN: undertaken

- TENANT shall, at TENANT'S own order and safe condition the building and improvements standing repair cost and expense, put, keep and maintain in thorough Repairs and Maintenance TWELVE:

INITIAL HERI

obsolescence or defects, and shall use all reasonable precautions to and whether the same shall occur, in whole or in part, by wear, tear, full equipment and appurtenances, the sidewalk areas, sidewalk hoists, railings, gutters, curbs and the like in from of the adjacent to the thereof, both inside and outside, thereafter erected upon the Premises, or forming part of the Premises, and their ordinary, and shall repair the whole and each during prevent waste, damage or injury, except as provided hereinafter. thereof in order to keep the same at all times 0 ۲ whenever the necessity or desirability therefor may occur, and safe term hereof and good order the the commencement of Premises, and each and every part term hereof in thorough repair extraordinary and Premises at part

by TENANT; this shall not be interpreted to relieve TENANT of any responsibility or liability herein otherwise provided, including among and not TENANT, shall be responsible for and shall which are were inspected by TENANT for purposes of occupancy due to faulty design, or to errors of construction not apparent at or negligence promptly correct any defects in the building on the Premises fault the 40 structural failure due LANDLORD the Premises others, for

maintain the landsite in throughly clean condition; free from solid waste (which includes liquid and gaseous as defined by the Resource Conservation and Recovery Act), rubbish, garbage and other permit it to be used, as a deposit or as dump for raw materials, waste materials, hazardous, toxic or non-toxic substances, or substances of use said landsite, nor also, at TENANT'S own cost and expens purpose of storing, putting away and/or concealing raw materials waste materials of any kind. Underground storage of hazardous and/ shall neither make any excavation shall not substances is specifically prohibited. Specifically, TENANT nature. TENANT TENANT Shall obstructions. whichever toxīc

and without 'n the proper precautions and complying with applicable laws TENANT shall not do or cause to be done, nor permit store class or kind Premises anything deemed extra hazardous, nor shall it any Premises flamable or toxic products or regulations.

LANDLORD shall be furnished with a copy of any permit issued for such In case TENANT needs to store in the landsite raw materials authorization. toxic wastes a hazardous and/or toxic nature or hazardous and/or secure its prior notify LANDLORD and TENANT Shall storage.

<del>4</del> Although it is not intended that TENANT shall be responsible members of the building, nevertheless TENANT shall: (i) replace, with time, or for ordinary wear and tear of surfaces and other structural for any decrease in value of the Premises due to the mere passing

and 07 5 other facilities through TENANT'S use, fault negligence, become too worn out to repair during the life of sanitary Lease, (ii) paint the property inside and outside as required. electrical, fixtures; building equipment and/or doors, windows; the Premises which and quality, ŗ kind plumbing,

any disbursement or outlay of money claims, losses, damages, or penalties, including counsel fees, because of or due to TENANT'S failure to comply with the foregoing, and TENANT shall indemnify and hold LANDLORD harmless from and against any and all cost, expenses, whatsoever, and hereby expressly releases and discharges LANDLORD and from any liability or responsibility whatsoever in TENANT In addition to the foregoing, call upon LANDLORD for therewith. shall not

precautions to insure that the drainage facilities of the roof are not hole on the roof for whichever purpose, (iv) use the roof for storage, (v) correct any leaks whatsoever, this being LANDLORD'S sole onsibility. Furthermore, TENANT shall take all reasonable THIRTEEN: Roof Care - TENANT, without the prior consent LANDLORD, shall not: (i) erect or cause to be erected on the roof the roof, (iii) drill (ii) place clogged and are in good and operable conditions at all times. bill board, aerial, sign, or structure of any kind, other load over TENANT Furthermore, fixture, equipment or any responsibility.

part of the Premises with no right whatsoever on the part of TENANT to such improvements shall not be commenced until after LANDLORD'S approval of the plans to be prepared therefor by TENANT and completion of construction and/or installation of said facilities, they shall be deemed covered by and subject to the applicable provisions of this Contract; it being further specifically further agreed and understood that construction and/or installation of been informed by LANDLORD that the maximum floor load of the Premises herein demised is 150 pounds per sq. ft. Therefore, TENANT hereby expense, carry out any improvements to the floor of the Premises - TENANT hereby acknowledges that it has its own cost facilities shall be removed by TENANT, at its own cost and expense, they shall remain load of the machinery and equipment load; upon termination of this installed thereat exceeds such maximum load, it shall, at bу support such additional in the alternative, and upon request by LANDLORD, prepared be reimbursed and/or compensated therefor. understood that event the necessary to Loads Floor that in the thereafter, after FOURTEEN: which may be agreed and approval

- TENANT shall not affix to the ceiling, nor conditioning unit, nor any other fixture, without the prior consent of any of its walls, any to its supporting joists or columns, nor to Fixtures FIFTEEN: LANDLORD -\*(1)

agrees, as a condition hereor, that it is previously installed at present \*(1) except for fixtures or air conditioning units previously installed at present on the property. and Compliance .Environmental Protection SIXTEEN:

and/or to install any equipment compliance; it being agreed that non-compliance (90) days after notice, shall shall be made until Authority, and/or the Department of Health of Environmental Quality Board, and/or any other Department, and/or discharges, and/or into any other place until after or system required, and to fully abide by and comply with any and alrequisites imposed thereby, and upon request by LANDLORD to submi grees and undertakes to treat any such effluent, prior to discharg Puerto be deemed an additional event of default under the provisions governmental agency having jurisdiction thereof and TENANT required authorization therefor has been obtained from the Aqueduct and Sewer Authority, and/or the Department of 0 ۲ sanitary effluent that no construction and/or installation said Authority, thereof by TENANT for a period of ninety governmental agency with jurisdiction, and/or thereof as required by the or gaseous industrial system LANDLORD has approved of it. sewer and/or evidence of such into the Puerto Rico Provided, liguid

Commonwealth of Puerto Rico Economic Development Administration/LANDLORD as lead agency/ or by any other governmental Environmental conditions and commitment other analogous document produced and Premises, processes and/or Statement, TENANT shall also, at TENANT'S own cost gency in connection with the approval of the project. in any Environmental Impact terms, in compliance with the construct and maintain the or any Commonwealth cedures specified

shall also serve LANDLORD with a copy of any lawsuit, notice of violation, order to show cause or any other regulatory action against TENANT in any environmentally-related case TENANT legal TENANT shall also serve LANDLORD with a copy of any permit granted to TENANT for air emissions, water discharge, solid waste any hazardous storage, treatment and/or disposal, and for any hazardouse waste raw materials or by-products used or generated stored, treated and/or disposed. toxic waste generation, and/or

any environmentally related case or issue, specially in any situation of any filing ground contamination. The notification 0 f LANDLORD shall take place not later than the actual filing involving underground or surface water pollution, hazardous or notification to be filed by TENANT with any regulatory TENANT shall also serve LANDLORD with a copy pertinent documents with the regulatory agency. waste spillage and

O Y or affecting the use of the Premises or any portion thereof, and will not SEVENTEEN: Improper Use - TENANT, during the term of this Lea and of any renewal or extension thereof, agrees not to use or keep certificate of occupancy or certificate of compliance covering in violation of this Lease or allow the leased Premises or any portion thereof to be used occupied for any unlawful purpose or

INITIAL HERI

constitute a nuisance, public or private, or which may make void article to be brought thereon, which may Premises safeguarded as required by law, or which may force on the leased Premises. any condition to exist on the then in done or any or voidable any insurance portion thereof, or dangerous, unless act to be suffer any

of default under the provisions of this Contract, of notice Environmental Protection thereon applicable to TENANT'S operations governmental Government Regulations - TENANT agrees and undertake and comply with any and all rules, regulations and at the Premises and/or products to be manufactured thereat, and requested by LANDLORD, TENANT shall submit evidence of su all such rules, regulations and requisites shall be deemed the Department with compliance; it being agreed and understood that noncompliance remedied within thirty (30) days after receipt applicable and/or of any other requisites of the Planning Board of Puerto Rico, Health, the Environmental Quality Board, the agency, having jurisdiction (EPA), where event EIGHTEEN: abīde by addītīonal requested

agency, having jurisdiction thereon so as to perform improvements that may be required as a result of any violation by LANDLORD that may exist at the effective date. and requisites improvements to the Premises required by TENANT'S operations in accordance with the regulations caused by TENANT or TENANT'S agents. a 1 1 and Any governmentaĩ violations

tenants general; it being agreed and understood that creating or causing any such nuisance, shall be deemed an additional may ü TENANT further agrees and undertakes to install Premises, at its own cost and expense, such devices as or cause any nuisance to adjacent integrity necessary to prevent that any hazard, which may be caused event of default under the provisions of this Contract. operations may affect the environmental landsite or may affect and/or the community in

Department relative to the use and storage of raw materials, finished at the Premises, and if requested by LANDLORD, agreed and understood that noncompliance by TENANT with any of the aforementioned of this TENANT further agrees and undertakes to abide by and comply of the Fire cases, an additional event of default under the provisions of th Contract unless remedied within thirty (30) days after receipt thereon, applicable o f and/or of any and requisites shall be deemed, in each such compliance; it being requisites all rules, regulations and governmental agency, having jurisdiction materials, inflammable 0 f submit evidence TENANT'S operations rules, regulations and/or Contract unless and any

TENANT provisions, shall same foregoing the Premises, the of Article TEN thereof. of the conseduence make alterations to subject to the provisions ಹ 40 needs

each of such cases, be deemed an additional event of default under the Puerto Rico Permits and Regulations if requested by LANDLORD, shall submit - TENANT agrees to abide by and comply with shall, conditions compliance; it being agreed and understood requisites included in the Use Permit Permit such said Use TENANT with any and all the Puerto Rico requisites and/or the cancellation of provisions of this Contract. and, the and all conditions and Use Permit Administration (ARPE), be issued by such noncompliance by NINETEEN: evidence of

representatives may enter the Premises by force, or otherwise, without rendering LANDLORD, or LANDLORD'S agents or representatives liable to obtained, or if at any time an entry shall be deemed necessary for the inspection or protection of the property, or for making any repairs, and during the year next permit inspection reasonable shall permit LANDLORD or LANDLORD'S agents to enter the Premises at all reasonable times for the purpose inspecting the same, or of making repairs that TENANT has neglected or refused to make as required by the terms, covenants and conditions showing the Premises for the purposes aforesaid cannot of TENANT or LANDLORD, LANDLORD'S ದ thereof by or on behalf of prospective tenants. If, at reason Lease, shall Бy of this Lease, and also for the purpose of damage same, 0 7 preceding the expiration of this purchase the - TENANT action admission to the Premises o t Inspection for the benefit accomplish such purpose. cause persons wishing to 0 TWENTY: claim

The provisions contained in this Article are not to be it being expressly agreed that the right and authority hereby reserved does not impose, nor does LANDLORD assume, by reason thereof, repair, care obligations under the Premises, or any building, the or liability whatsoever for of LANDLORD'S appurtenance on the Premises. increase supervision of construed as an responsibility

provided that there be no unnecessary obstruction of TENANT'S right of entry to and peaceful enjcyment of the Premises, and TENANT shall make claim for rent abatement compensation or damages against LANDLORD LANDLORD reserves the right to make such repairs, changes alterations, additions or improvements in or to any portion of the building and the necessary or desirable and for the purpose of making the same, to use alterations thereof as it may reason of any inconvenience or annoyance arising therefrom. of the and elevators entry for repairs equipment which are reputed part stairs and entrances, halls, LANDLORD'S TWENTY ONE: and street

claim against LANDLORD for damages or constitute a total or partial eviction, constructive or otherwise. It being agreed and understood orders, regulations or requirements of any governmental authority now or hereafter in force or by reason of strikes or riots, or by reason control of LANDLORD, r r the rules equipment thereof, or accidents, in damage to or the making of repairs, replacements delayed in extended for a period of time equal to the number of days of any materials service, supplies, or by reason of circumstances directly or indirectly result of any state of war, or of emergency duly proclaimed hy any laws, shall not be grounds such construction, certain instances labor, corresponding governmental authority, or by reason of shall be unable to perform or shall be supply any other cause reasonable beyond the son of inability to obtain and utilize the improvements to the building or any of delay in performance LANDLORD excused in any any covenant to time for completion of non-performance or performance of TWENTY TWO: of any evíction, that the

full rent covenants herein peaceably and quietly enjoy the Premises the term aforesaid, subject, however, to the terms of this Lease - TENANT on paying the conditions and to the mortgages hereinafter mentioned Quiet Enjoyment performing the shall and may TWENTY THREE: keeping and contained,

and payable and shall promptly reimburse LANDLORD for any payments or assessment. Said amount shall be due and payable, as additional rent, Leasehold Improvements - If leasehold improvements made by or for the benefit of TENANT in the Premises at its request or the next installment of rent. In the event that TENANT fails is imposed to TENANT or LANDLORD, it is understood that sole responsibility of TENANT to pay such taxes and in taxes be the liability of or be transferable this payment when due, it shall be subject to the provisions liability of LANDLORD, TENANT shall pay such taxes as they become other personal property of TENANT are assessable or taxable and a any <del>4</del>0 disbursed by LANDLORD by reasons such event that by operation of law, Article THIRTY SEVEN hereof. expenses incurred or event shall such the TWENTY FOUR: In shall be the LANDLORD.

o f upon the Premises, but nothing contained in this paragraph shall be deemed to require TENANT to maintain such an operation otherwise than (without limiting the generality of the foregoing) to prevent TENANT Stoppage of Operations - It is understood by the the industrialization plans of the Commonwealth of Puerto Rico, and furtherance principles of business management, is accordingly understood that TENANT will use all reasonable a manufacturing is made by LANDLORD in in effect to maintain hereto that this Lease with sound while this Lease is TWENTY FIVE: accordance parties

prevented, shall not constitute a breach of this agreement. Nothing in this paragraph contained shall relieve TENANT from the payment of the period of any shut-down or curtailments of operations. such plants shall have been shut-down default under the provisions of this Contract which will enable shall be given at or shut-down curtailment and/or shut-down, at constitute ) consecutive months. A shut-down on account events which although foreseeable could not down, whenever seven (7) days prior to the date fixed therefor except in as TENANT may, in the exercise of sound business jaction advisable. However, TENANT shall give to No curtailment of operations accordance with the provisions of this paragraph shall emergency shut-down, in which case such notice such operation or from shutting it for a period of six (6) consecutive months. notice of any necessary or convenient LANDLORD to terminate it, unless the earliest possible time. ٥٢ unforseeable event curtailing rent during deem such

to its parent company, to a wholly owned subsidiary, to an affiliate of TENANT, wholly owned by TENANT'S parent company or to a corporation and understood that no such assignment or subletting shall: this Lease nor let or sublet the Premises or any part thereof except to be organized by TENANT. In any of these cases, TENANT shall (i) reduce or, in any way, affect the obligations of TENANT under thi (ii) release TENANT from liability under this Lease. TWENTY SIX: Assignment and Subletting - TENANT shall not promptly notify LANDLORD of said assignment or subletting, Lease, nor agreed

lessor, at the time in question, of the Premises, so that in the event hereafter of a transfer of the title to the Premises, whether any such of LANDLORD voluntary or by operation of law or otherwise, the person, liability shall be TWENTY SEVEN: Successors in Interest - This Lease Contract every provision thereof, shall bind and inure to the benefit of legal representatives. surrecone and inite to the benefit of However, the term "LANDLORD", as used in this Contract, so far as covenants or obligations on the part of LANDLORD under this Lease the the performance of the covenants and obligations under this Lease from and after the date of such transfer. is made, natural or juridical, by whom any such transfer is made, hereby is entirely freed and relieved of all personal shall be limited to mean and include only assigns and transfer be concerned,

by TENANT, shall be conclusive evidence, as against same "AS IS" and that said Premises Contract. The taking possession representations or promises with respect to the Premises except acquired by TENANT by implication or otherwise except as expressly herein expressly set forth and no rights, easements or licenses LANDLORD'S agents or employees, or the agents, executives or Development Administration, have No Representation by LANDLORD of this TENANT accepts forth in the provisions TWENTY EIGHT: Economic the Premises

so taken. same, were such possession was the a part of condition at the time the building which forms satisfactory particularly

person therein, except to the of any damage to or defects in the of the building's sanitary, shall be remedied such claims resulting not be responsible for in or pa ough the Premises, and the damage or defective conditions, the provisions of Article TWENTY ONE hereof, shall be reme required from TENANT. Premîses systems located of LANDLORD'S gross negligence, and provided the latent defect or change of conditions in TWENTY NINE: Damages - LANDLORD shall loss is not covered by insurance herein or the property or electrical, air conditioning or other through the Premises, and the damage or particularly in any part LANDLORD with reasonable diligence. shall promptly notify LANDLORD same, to the

(whether or not acting within the scope of his employment), servant, agent, licensee, visitor, assignor or undertenant of TENANT, or by any claims, demands, expenses, including attorneys' fees, and actions of of law violation agents, servants and employees TENANT shall indemnify in the Premises occasioned in whole or in part by of LANDLORD against and from any and all liability, fines, including the loss of use resulting thereof or, violation or non-performance of any covenant in this Lease on the part breach, of injury to person the part of TENANT or or occupancy of the Premises or any General Liability Insurance hold harmless and defend LANDLORD and by reason be observed or performed. omission kind or nature arising or act neglectful use THIRTY: occurring

term of this Lease, at its own cost and expense, a comprehensive General Liability Policy. Said policy shall: (i) be for a combined single limit of no less than \$500,000.00 per accident. (ii) hold LANDLORD harmless against any and all liability as hereinbefore stated, and (iii) the care, custody & control exclusion shall be and coverages, when additional Pursuant to the foregoing, TENANT shall, maintain during the care, custody & control exclusion requîre public liability insurance LANDLORD may so require. coverage. changing circumstances reasonable limits of this from deleted

licensees, visitors, assignees, or undertenant for any loss or damage THIRTY ONE: Property Insurance - TENANT recognizes that the rent provided for herein does not include any element to indemnify, repair, servants, to any property or injury to any person in the Premises. employees, make whole TENANT, his replace or

Premises, including all during the term of this Lease, TENANT shall the building standing upon the Premises at the commencement in an amount of LANDLORD alterations, additions and improvements, insured for the benefit TENANT, as their respective interests may appear, to the Premises and all term hereof or thereafter erected upon the Accordingly, appurtenant equipment

Insurance from time shall to the percentages stated below (as LANDLORD may The basis of the Property Insurance coverage an "All Risks" Property Coverages included in the All Risks Form: Replacement Cost and the time determine): equal olicy.

- . Fire "Building & Contents Form"
- Building 100% of insurable value exclusive foundations (a)
  - Contents All equipment appurtenant to Policy) Premises (State value of (P)
    - Fire Policy the Coverages under Additional
- of insurable %00T value exclusive of foundations Extended Coverage Endorsement (a)
- 50% of insurable value including foundations Earthquake (a)
- Vandalism and Malicious Mischief Endorsement (၁)
- For all Improvements and Betterments (g)
- changes, additions and improvements alterations,
- 100% of insurable value Landsite and Flood whenever applicable and/or necessary
  - Pollution Liability Policy if necessary. and Machinery (if any) Boiler 4

under this Article, shall be due and payable, as additional rent, with ት ት because of anything done, caused or permitted to be done, permitted or premium rate for any kind of insurance LANDLORD the additional amount which LANDLORD may be thereby obligated to pay for such insurance, and if LANDLORD shall demand that TENANT premiums rate, TENANT will remedy such conditions within five (5) days Specific Provisions - In the event that the Premises constitute a section or sections of an industrial building and landsite in which other operations are conducted by other TENANTS: (i) the insurance coverage herein of the provisions after such demand, and (iii) the insurance policies required in (ii) TENANT fails to required, shall be acquired by LANDLORD for the whole of industrial building and TENANT shall reimburse LANDLORD, for shall the shall be endorsed to include a subrogation against TENANT. All amounts to be reimbursed in the total cost of said policies, shall be subject to the in increased, TENANT conditions which caused the increase event that THIRTY TWO: Multifactory Building In the affecting the Premises shall be installment of rent. this payment, when due, it Article THIRTY SEVEN hereof. preceding Articles 30- & 31 TENANT, the proportionate share the omitted by

and insurance policies herein required from TENANT, shall be taken in form and substance acceptable to LANDLORD with Insurance Companies duly authorized to do business in Puerto Rico, having an "A" and/or a "A" and/or Best's Insurance Report; Provisions Additional Insurance higher financial rating according to THREE:

days directly to LANDLORD. LANDLORD reserves the right not to deliver such policies or or Certificates of Insurance, in lieu thereof, or certified copies or certificates TENANT possession of the Premises to TENANT, unless, and until two insured. deliver an addītional t t insurer such original policies, deposited with LANDLORD. a S corresponding LANDLORD certified copies include instruct the

and TENANT shall reimburse LANDLORD any amount so paid. This reimbursement shall be due and payable with the next installment of such premiums or any of them shall not be so paid, LANDLORD may procure the same in the manner set forth for governmental agencies, It is expressly agreed and understood, that payment by LANDLORD of any action as may be available hereunder as in the case of default in the of Article THIRTY SEVEN hereof. renewed by TENANT upon expiration and or release the default Furthermore, said policies, shall: (i) provide that th may not be cancelled by the insurer for nonpayment of premium otherwise, until at least thirty (30) days after service of notice thirty (30) days after such renewal, deliver LANDLORD adequate evidence of the payment of premiums thereon. fails to make this payment when payment thereof by TENANT nor the right of LANDLORD to take registered or certified mail of the proposed cancellation LANDLORD, and (ii) be promptly renewed by TENANT upon expiratio deemed to waive shall be subject to the provisions that TENANT shall not be shall, within event payment of rent. In the such premiums

event TENANT continues with the insurance policies placed in LANDLORD. to LANDLORD the apportioned unearned premiums on all such policies Upon the commencement of the term hereof, TENANT shall insurance then carried by LANDLORD in respect of the Premises in

perform and satisfy the requirements of the companies writing such the conditions or provisions of any of said policies, and TENANT shall and acceptable violate nor permit to be violated any shall be willing to write and continue such insurance. policies that at all times companies of good standing TENANT shall not to LANDLORD

execute and deliver any proof of loss or any other instruments as may other instruments that may be required for the purpose of facilitating so to cooperate or to execute, obligations of TENANT under Articles THIRTY, THIRTY ONE, THIRTY acknowledge and deliver any such instrument, LANDLORD, in addition This shall not be interpreted as any waiver seem desirable to LANDLORD and any mortgagee for the collection ENANT shall cooperate with LANDLORD in connection with loss and shall execute and deliver to LANDLORD such proofs of loss in the event collection of any insurance monies that may be due in the as the agent or attorney-in fact and of any such insurance monies, or neglect remedies, may such insurance monies. TENANT shall fail the recovery other

LANDLORD favor of exclusively in <u>۲</u> THIRIY THREE hereof Article THIRTY NINE hereof. ឧត្តជ

**4**0 subscribed by LANDLORD. This Contract contains all the agreements in writing additional rent, or any other sum or charges payable by TENANT with or this Contract, of the rent, a surrender of the Premises and no agreement to accept No act or omission charges in this Lease must be in writing, signed by the party to the term of this Lease shall be deemed changed orally. Any additions to, conditions made between the parties hereto with respect shall be valid unless it be made - The receipt by LANDLORD any covenant of shall not be deemed a waiver of such breach. without knowledge of the breach of during Premises and it cannot be Waivers surrender of the Premises LANDLORD or its agent THIRTY FOUR: acceptance of

or approval, shall not be deemed to waive or render unnecessary the waiver of any of its respective rights hereunder nor constitute consent Failure on the part of LANDLORD to act or complain of approval by LANDLORD to, or of any action by TENANT requiring action or nonaction on the part of TENANT shall not be deemed approval by LANDLORD of any subsequent similar act. waiver at any subsequent time of the same provision. The consent or

the Premises, or any similar act, by the LANDLORD, or its agents or employees, during the term hereof, shall not be deemed to be a delivery or an acceptance of a surrender of the Premises unless so collected shall be deemed to be payments for the use and occupation cured in the meantime, or after the commencement of suit, action or summary proceedings or of any other remedy, or after a final order, warrant of judgment of the possession of the Premises, LANDLORD may demand, receive and collect any monies then due, or thereafter due, without in any manner affecting such notice, proceeding, such monies waiver of the right of LANDLORD to recover possession of the Premises after the service of notice to terminate or cancel this Lease, and the expiration of the time therein specified, if the default has not been any notice theretofore given to TENANT, or operate as a waiver of the right of LANDLORD to enforce the payment of rent, additional rent, or by proper suit, action, proceeding or remedy; it being agreed that, Reinstatement - No receipt of monies by LANDLORD for TENANT after the termination or cancellation hereof in any lawful affect charges then due or thereafter falling due, or operate as TENANT'S liability hereunder. Delivery or acceptance of the keys manner shall reinstate, continue or extend the term hereof, or delivery or an acceptance of a surrender of the Premis LANDLORD shall explicity consent to it, in the manner suite, action, order, warrant or judgment; and any and all LANDLORD, on election of the or at Premīses, THIRTY FIVE: becoming

purposes to be automatic and effective without any further instrument on the part of TENANT, TENANT shall execute any further instrument for all to all liens, or mortgages which extensions - This Lease be deemed a ] ] requested by the LANDLORD to confirm such subordination. <del>ر</del> modifications, consclidations, replacements and eand, although this subordination provision shall and and Attornment the Premises shall be subject and subordinate Subordination affect hereafter THIRTY SIX:

statute or rule of law now or hereafter in effect which may give or purport to give TENANT any right of election to terminate this lease surrender possession of the Premises demised hereby in the event such attornment. TENANT further waives the provision of any time to time, upon the request of LANDLORD or of the mortgagee or Premises, the mortgage is terminated or foreclosed by summary proceedings or otherwise, TENANT will attorn to the mortgage or the purchaser in foreclosure proceedings, as the case may be, and will recognize such mortgage or purchaser, as the TENANT'S landlord under TENANT further covenants and agrees that if by reason of the purchaser in foreclosure proceedings, as the case may be, reasonable instrument which may be necessary or appropriate any such proceeding is brought by the holder of any such mortgage, default upon the part of the LANDLORD of any mortgage affecting at any time foreclosed by be affected in and deliver, terminated or hereunder shall not to execute any such proceeding. ئ. دی Lease. TENANT agrees TENANT'S obligations whatsoever by

any such mortgage, to pay to the holder of any such mortgage or to such receiver, as the case may be, all rent becoming due under this such receiver complies with the obligations of LANDLORD under this any mortgage duly recorded or recordable in the corresponding Registry the Property or of any receiver duly appointed by the foreclose Lease after such demand, provided such holder of any such mortgage covenants and agrees, upon demand of the holder TENANT, 0

true, that this deliver or cause to be delivered to LANDLORD or such lien holder or certificate duly executed and acknowledged in form for recording, time to time, any holder of LANDLORD is not in default under any of the terms of this Lease. o f and from date certifying, if true, or to extent subsisting and in full force mortgage or lien affecting the Premises, shall days from TENANT, upon request of LANDLORD or (10) working ten certhic...
without charges, certi mortgagee, within

to LANDLORD, in whole or in part, of the rent, or of the additional rent, or of any of the other payments of money required to be paid by (i) TENANT makes late payment, or fails to make payment THIRTY SEVEN: Late Payments and Payment by LANDLORD - In the qne TENANT to LANDLORD, as stipulated in this Lease, when and

interest, is unlawful, then and in such event, at the highest maximum Charges, 998), as the rate of twelve per cent (12%) per annum, or if such 12%interest on such late paid or unpaid rents, additional rent, and/or on such other payments of money required to be paid, and/or on any such amounts of money required to be refunded, from and after the date when thereof matured or became due and payable, until full payment, fixed by pay LANDLORD as additional rent, acts or obligations agreed to be performed by TENANT, as stipulated in this Lease, and TENANT fails to refund to LANDLORD any amounts of money paid or incurred by LANDLORD in performing or causing the performance of such acts or obligations, when and as due and payable period provided hereunder, performs any obligation prevailing rate of interest on commercial unsecured loans as created under Law #1, approved October 15, 1973 (10 LPRA of Regulatory Rates of Interest and Financial thereof. causes to be performed, at the cost and expense of TENANT, successor statute or regulation pagable; or if (ii) LANDLORD, without assuming TENANT undertakes and agrees to grace or so, after any notice amended, or by any this Lease, and payment

neglect of TENANT or the employees, servants, licensees, visitors, to be provided by LANDLORD is unavailable for a period exceeding thirty (30) days and LANDLORD has been notified of the same, should Premises untenable, TENANT after the aforesaid thirty (30) days, shall be entitled to an abatement of a portion of the rent that shall reflect that portion of the Premises which is untenable, provided the - If any substantial service or facility damage to the service or facility is not attributable to the act unavailability of such service render all or any portion of assigns or undertenants of TENANT. Abatement THIRTY EIGHT:

TENANT, the rent required to be paid pursuant to Article FOUR hereof, shall be abated in proportion to the part of the Premises which are If the building, be so damaged that LANDLORD shall decide furnishings or other personal property which TENANT may have placed or Premises. LANDLORD shall proceed with due diligence to obtain the corresponding insurance adjustment of the loss and TENANT shall fully shall repair the same with reasonable dispatch after notice to it of the damage, due allowances being made for any delay due to causes beyond the LANBLORD'S reasonable control, provided, however, that any furniture, term of this Lease, the Premises shall be damaged by fire or other casualty, LANDLORD after written notice thereof is given by TENANT, THIRTY NINE: Fire or other Casualty - If before or during the employees, servants, licensees, visitors, assigns or undertenants installed or which it may be entitled or required to remove from cooperate with LANDLORD and assist in the adjustment of the such repairs are completed, and provided such damage or casualty is not attributable to the act or neglect of TENANT LANBLORD shall not be required to repair or replace untenable.

apportioned and paid e time of such fire or other casualty if the Premises are or up to the specified date of termination if the Premises reasonable time after such damage of LANDLORD'S election to terminate this Lease, such termination to be effective immediately if the term such notice wîthin ij to reconstruct the building, in whole or liable TENANT value of the unexpired term of this Lease.

\text{TY: Default Provisions - If, during the term of} 0 f or on a date to be specified in given during the term. In the event of the giving otherwise by notifying during the term of this Lease, the rent shall be рe shall not LANDLORD may terminate this Lease and LANDLORD shall not have commenced demolish and/or are not damaged up to the time damaged,

day were the date herein specifically fixed for the expiration insolvency law, or (v) file an answer admitting the material allegations of a case filed against it in any bankruptcy, reorganization or insolvency proceeding or, if an order, judgment or application of TENANT or creditor adjudicating TENANT a bankrupt or or approving a petition seeking reorganization of TENANI relief (other than a reorganization not involving the liabilities of TENANT shall: (i) apply for or consent in writing to, the appointment this Lease, of the term, and TENANT will then, quit and surrender the Premises LANDLORD, but TENANT shall remain liable as hereinafter provided. interest of TENANT hereunder shall expire as fully and completely or appointment of a receiver, trustee or liquidator of TENANT, or all or substantially all its assets, and such order, judgment they become due, or (iii) made a general assignment for the benefit of a receiver, trustee or liquidator of TENANT or of all substantially all of its assets or (ii) seek relief under t Bankruptcy Act, or admit in writing its inability to pay its debts (60) consecutive days, the term of this Lease and all right, title TENANT) or arrangement with creditors, or take advantage of effect for a period of shall be entered by any court of competent jurisdiction or (iv) file a petition, case or an answer the liabilities reorganization not involving unstayed and in decree, shall continue creditors, Ø FORTY: (other than insolvent,

major portion of the goods, wares, equipment, or furnishings usually and regulations regarding any of the covenants of this Lease (other then the covenants for the payment of rent or additional rent), or of any other manner in whole or in part or shall, by operation of law, pass to as herein provided, or (iv) Lease TENANT shall abandon, vacate, or remove from the Premises shall be encumbered, assigned or transferred shall said premises, or (iii) this Lease, without the prior with LANDLORD or (ii) if, during the (i) TENANT the term of this Lease: in violation of laws, rules upon any third party, except If, during contract. in fulfilling of LANDLORD, ٦<u>.</u> د u O devolve

as hereinafter provided. If, (i) TENANT shall default in the payment of the rent, the of the service of such second notice, and upon the giving of said notice of expiration the term of this Lease and all right, title and day were the date herein specifically fixed for the expiration that the time of TENANT within which shail be extended for such period as may be necessary same with all due diligence), LANDLORD may give to a notice of expiration of the term of this Lease as of the date such notice and with the same and thereafter to prosecute the in connection with a default not susceptible of being cured with due event upon which said notice was based a default which cannot with but which have not been specifically mentioned in this Lease, LANDLORD may give to TENANT the service term, and TENANT or any party holding under its will then qui surrender the Premises to LANDLORD, but TENANT shall remain liabl and completely curing of such default with all due diligence (it being intended rules due diligence be cured within a period of thirty (30) days, of any other law, such default or the happening of any event above and if at the expiration of thirty (30) days after fully fails to proceed promptly after the service of a S to his operations, interest of TENANT hereunder shall expire to exist, or in the case of employees, or diligence within thirty (30) days of such a notice the default or cure regulations applicable ٥ 4 wages of its due diligence complete the the same shall continue of any and

proceeding at law, or with the license and permission of TENANT, which prosecution or damages therefor and repossess and enjoy the Premises servants may immediately or at any time thereafter re-enter the Premises and remove all persons and all or any property therefrom, of this Article, without LANDLORD being liable to indictment, this Article provided, this Lease shall terminate and TENANT will then rent, continues for thirty (30) days from the date any such payment became due and payable (AUTOMATIC DEFAULT TERMINATION), or (iii) if after notice summary eviction proceedings or by any suitable action as hereinafter provided, LANDLORD or LANDLORD'S agents Contract be deemed given upon expiration thereof by LANDLORD, or (ii) if the default of the payment strict thirty (30) day notice period recited in the second additional rent, or of any other payment as required under and such default shall continue for ten (10) working days af and surrender the Premises to LANDLORD, but TENANT shall terminate as in the first and second with all additions, alterations and improvements. shall under this whether by this Lease quit

have the right, at LANDLORD'S option, to terminate this Lease and the If TENANT shall fail to take possession of the Premises within ten (10) days after the commencement of the term of this Lease, LANDLORD vacate and abandon the Premises, TENANT Shall

summary proceedings or otherwise. The right granted to LANDLORD in this Article or any other Article of this Lease to terminate this herein originally granted; and TENANT shall immediately quit and surrender to LANBLORD the Premises and each and every part thereof and interest of TENANT same force and effect (except as to TENANT'S liability) as if the and the of such TENANT term hereby granted, shall terminate any extension or renewal of term hereby granted and any right on the part of TENANT thereto. 0 f intention, and upon the expiration of the time fixed in such notice, if such default be not cured prior thereto, this Lease giving TENANT five (5) days notice in writing such latter notice were the expiration of and interest of any such right by LANDLORD the fixed 0 f same LANDLORD may enter into or repossess the Premises, all the right, title and or renewal hereunder, shall wholly cease and expire in the time as all the right, title and upon the expiration of the extension apply to any exercise a S well Lereof, as well granted, and the term hereof, as fixed by bγ Lease, shall

and the fulfillment of the covenants of TENANT hereunder. Any such reletting herein provided for, may be for the remainder of the term of shorter period or at a higher or lower thereof be relet, TENANT shall pay to LANDLORD the rent required to be about the reletting of the Premises or any portion thereof and then to proceedings, by reason of, or based upon, or arising out of a default under or breach of this Lease on the part of TENANT, LANDLORD, at its to the payment same into good order or condition or the granting of concessions, and receive rental not the manner of any of the paid by TENANT up to the time of such termination of this Lease any holdover any time, and from time to time, relet the Premises or any part Upon the termination of this Lease by reason of any of t foregoing events, or in the event of the termination of this Lease of law, now or commissions and charges paid, assumed, or incurred by LANDLORD in but without assuming any obligation to do so in any case, such case, whether or not, the Premises or any in any of the circumstances hereinbefore mentioned, or in any recovering possession of the Premises, including reasonable expenses, and for putting the same into good order or conditi whatsoever, whether with or without default under or breach of this Lease on the part of any time hereafter, in force by reason of, or based upon, or parts thereof for the account of TENANT or otherwise on such upon LANDLORD recovering possession of the Premises in of TENANT hereunder. the rents therefor, applying the same at a may have higher than the one stipulated in this Contract, first and/or the full rent provided for in the agreement for re-rental, summary eviction proceedings or under any provisions as LANDLORD for same such reasonable expenses this Lease or for a longer or altering the LANDLORD may elect, including the circumstances the fulfillment of any or Π and collect 20

avails of reletting, if any, as specified hereinabove in this Article and the same shall be due and payable by TENANT to LANDLORD as shall pay to LANDLORD the as originaily demised the equivalent of after termination and up to the surrender or recovery possession of the Premises by LANDLORD, as the case may be, thereafter TENANT covenants and agrees, to pay to LANDLORD until of all the rent reserved herein, less the say, TENANT amount of any deficiency then existing. end of the term of this Lease herein, that is to any deficiency amount period provided

distinct, separate and cumulative, and no one of them, restrain the same, and the right to invoke any remedy allowed by law or in equity as if specific remedies, indemnity or reimbursement were exercised by LANDLORD, shall be deemed to be a waiver, paid or expense incurred by LANDLORD in the performance of the same shall be repaid by TENANT on demand. In the event of a breach or FORTY ONE: LANDLORD'S Remedies - In the event TENANT shall defauit in the performance of any of the terms, covenants or provisions herein contained, LANDLORD may, but without the obligation - In the event TENANT shall herein provided for. The rights and remedies given to LANDLORD conditions or claiming under TENANT of any of the covenants, conditions provisions herecf, LANDLORD shall have the right of injunction do so, perform the same for the account of TENANT and any threatened breach by TENANT or any subtenant or other person exclusion of any of the others. ล ก whether or not this Lease

of such notice in which to remedy such default, or if said default or. omission shall be of such a nature that the same cannot be cured if LANDLORD shall have commenced taking the necessary steps to cure or remedy said default within said thirty (30) days and diligently shall specify the default or omission complained of, and LANDLORD shall have thirty (30) days after receipt said period, then the same shall not be an enforceable default - Anything in this Lease to the contrary notwithstanding, it is specifically agreed that there shall any provisions of such default be given by TENANT against LANDLORD under proceeds with the correction thereof. Notice of Default this Lease, unless notice LANDLORD in which TENANT enforceable default FORTY TWO:

and long-term debts, it being agreed and understood any such debt shall in no way diminish the FORTY THREE: Definition of Capitalization - For the purpose this Contract, specifically of Article SIX, Capitalization means stock stock, common amount originally determined and Capitalization. total of owner's equity sources (preferred that the amortization of accounts)

FORTY FOUR: <u>Disclosure of Information</u> - TENANT agrees to furnish to LANDLORD within ninety (90) days after the expiration of each fiscal year of TENANT, an annual statement certified by an independent

(iv) taxes (including Social Security taxes) paid, and (v) any other debts and such fiscal (iii) investment in machinery and its capacity to provide employment information as required by this Lease. In the event such statement is not filed with LANDLORD year: (i) TENANT'S paid-in capital, (ii) long-term deb capitalization as required by Articles SIX and FORTY THREE (ii) long-term showing as of (ertified Public Accountant year: (1) TENANT'S

LANDLORD'S designated representatives, its books of accounts and other necessary data and facilities, all of which shall be provided and made TENANT'S expense, and for such purpose TENANT shall make available herein provided, LÄNDLORD may obtain such information from TENANT at TENÁNT'S principal office in Puerto Rico. available

conditions contained herein except that the rental rate to be charged shall be the rate then currently being charged by LANDLORD for similar exercised at any time thereafter, to notify TENANT that the lease herein has been renewed for an additional term of ten (10) years from term of ten (10) years upon the mere mailing of such notice by LANDLORD to TENANT. This provision shall in no way prejudice, affect event shall it be less than the rate FORTY FIVE: Automatic Renewal - In the event TENANT does not vacate the Premises in the manner and under the conditions hereinbefore provided, within ninety (90) days after the normal term hereuf, LANDLORD shall have the option to be event, the parties agree that this Contract shall be held to have been renewed and to continue in full force and effect for such additional the term hereof, particularly whenever LANDLORU does not exercise such option; it being agreed understood that such renewal shall be upon the same terms last normal expiration of the term hereof and, in or deny any right which LANDLORD may otherwise have because, or 0 f time, of any such termination the area, but in no herein stipulated. expiration of the date of the building in

or circumstances shall, to any extent, be invalid or unenforceable, the remainder of this Lease and the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected thereby, and each term and provision of this Lease shall be valid and be entered into and shall be interpreted in accordance with the laws of FORTY SIX: Partial Invalidity and Applicable Law - If any term to any person This Contract or provisions of this Lease or the application thereof to the fullest extent permitted by law. the Commonwealth of Puerto Rice. enforceable

expiration or termination of this Lease: (i) TENANT shall furnish LANDLORD with a full and detailed report as to the environmental environmental area of concern including, but not limited to - Upon integrity of the Tanúsite and Premises with specific reference Lease Termination and Holding Over SEVEN:

as complete remediation or fulfillment of TENANT'S obligations is effected. In case TENANT fails to comply with the foregoing provisions, LANDLORD may elect to effect them at TENANT'S expense and a result of accompanied by a Certification from TENANT as to the environmental state of the premises and landsite. In case there should be any damage or any remedial action to be performed or any other obligation the Certification shall state so and a plan of action with the appropriate financial provisions to (including operation. The report shall be and/or toxic raw materials or by-products used or generated, stored, transported, treated and/or disposed of during the period of of the landsite, disclosure of any environmental generation, storage, transportation, treatment and/or disposal, and any hazardous state of underground and surface execute it. LANDLORD shall hold TENANT responsible for any and such a any ๙ environmental damage, or any damage to third parties as a any environmentaï damage, or any remediaï action monitoring) to be performed at landsite or otherwise as a 0 1 TENANT'S operations after termination of Lease and until and/or toxic wastes operation, state of the landsite, disclosure of any regulatory violations, compliance plans, permits regulatory procedures related to the and hazardous applications, effluent discharge, fulfilled by TENANT, waste responsibility. waters, solid present

contractors. TENANT'S obligation to observe or perform shall survive the expiration or other termination of the covenant to remove all its property and surrender the Premises broom to LANDLORD the reasonable cost of repairing such damages unless to the gross negligence of LANDLORD, its agents, servants, so to do, TENANT hereby appoints LANDLORD clear. TENANT hereby agrees to pay all reasonable necessary cost and of the building of which they are a part, are damaged, TENANT shall all of the said property to be covenants and property of TENANT and that expenses thereby incurred by LANDLORD. If, as the sole result of t removal of TENANT'S property any portion of the Additional Premises agrees to give full and timely observance and compliance to at the expense and risk of TENANT. TENANT (ii) TENANT shall remove all any third party and failing so to do, its agent so that LANDLORD may cause of this Lease. employees and this covenant to the removed

LANBLORD of any change in the addresses other than those required from Change of Address - TENANT shall promptly notify it in Article SEVEN hereof. FORTY EIGHT:

part hereof ij j.s S-0113-0-52 made following and annexed Project to the that "B" hereto subject acknowledge Tenant Schedule Ьÿ parties hereto out ij detailed carried p, s S The repairs shall repairs NINE FORTY certain which

- Landlord' withcoordination ij done p, Department. shall The repair v Maintenance repair Ä
- 늉 amount theexceed not shall Tenant なり and payment costs repair \$35,606.00 æ,
- val of shall approval at it shal that and agrees he inspection hereby agrees the d after the Landlord and Department, such amount. repairs the Maintenance ¥0 Tenant termination t Upon terminal Landlord's 1 reimburse

 $\circ$ 

from days (09) sixty than lease later this ized not term of be finalized the οĘ commencement shall Such repairs οŧ date

commencing installments monthly in equal shall be paid rental This

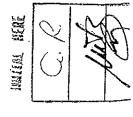
n October 1, 1987 as follows:

|      | RENT PER SO, FT. OF | MONTHLY     |
|------|---------------------|-------------|
| TERM | GROSS BUILDING AREA | INSTALMMENT |
|      | PER ANNUM           |             |

.20 .66 .30 ,718 ,855 ,199 2277 <del>~~~~</del> .000 ---- $\omega\omega\omega\omega$ a r r OΦ  $\rightarrow$ 5th 10th year year to 10 1st 2nd 3rd 6th

ര 0 ⊆ addition impro. ⊏ are e r ٤\_ nnd UMU shall the Authority S such the convenien ha and S ب. quires لم آ within o U 40 οf being agreed pprov ď ټ. ب Contract ewer talla1 ۲e be installation to or Φ ď shal·l TENANT ailabl written S ins and ssary this a۷ S and/or that **ن**. ct 4 Mou gueduc S i. ed and/or a) pressure; LANDLORD" ent ocati ପ . S construction contained ⋖ p o è 0 àS <u>---</u> construction the ۳ 9 may Ri ssure and/or after ಥ 0 as ⊏ ses uert Anything obtained . pre premi • facilities anding such until Ω. such volume and/or the the eq that by and د commenced S twiths -ONE demî: ധ water pens O equested and/or Ō er, ۶., quî FIFTY the increase . 0 u howev ě <del>1</del>0 r R Ьe ۲. and  $\Box$ vements <u>د</u> 0 ൻ ---ره ۲. volume event 5\_ • een tood nt wher ىب nd/ 0 S t 1 0

<u>]</u> industrial ca 1 equipment which ٠,٠ 4 peci se S and/or noi the the such hereby in install that ENANT harzard es and  $\vdash$ acknowledg therefore steps any that such hereby industries; prevent take TENANT ţ t0 undertakes other necessary -TWO: are FIFTY ere and p e ت mаy S ø park gre S ď



ENANT unduly therewi ore manner and theref saves LANDLORD harmless from any connection 0 r and wαy industries any <u>'</u>\_ ī. therefrom or may other operations the arising 0 f its operations<sup>°</sup> and or demands ρ releases created the hereby claims o O ect may

ىد S  $\Box$ and prod reduc expens ation 0 ۲ materials stall prevent and the its own cost obtain 'n such **t**0 Ø inflamabl shall also provide security measures for Fire Department shall, at system and οf storage TENANT protection the the to from FIFTY-THREE d u e fire لم S TENANT must hazard approv ದ install

S

ಗ Environment Φ for Waste 무 for permit ס the Rico Soli from േ 0 £ Puerto obtain from the Office source Germán, and emission procure San authorization <del>у.</del> О shall solid waste from the Municipality TENANT Was o f ಗ and sition FIFTY-FOUR: operation of Quality Board dispo 0.7 final and/

Health and TENANT ons σ that م ئ ety regul and understood βĻ S the Rico.Occupational τ'n ≍. comply agreed 40 hereby steps Puerto It is sary the the neces οf FIFTY-FIVE: law requirements (PROSHO) tak 1 c e shall

necessary shall with obtain Department ormity TENANT shall the Engineering conf TENANT operations, and/or install in power and Authority LANDLORD'S TENANT'S electrical construct bλ Electrical Power οf 50KVA required expense, approval the ΨĮ and equipment to exceed and FIFTY-SIX: own cost Puerto Rico endorsement S دب

en shall eduı compliance Board expense, control Quality leve1s in the and install cost Environmental quality at its own and sures air the TENANT, atmospheric теа οf ary Jaw SS .. S O envīronmental FTY-SEVEN п maintain the the ement impl င္

INSERT CORPORATION OF P.R (INSERTCO) INC

-25-

execution LANDLORD within Contract; οf address у. О ratifying the a resolution this Department and to 0 f пате submit execution 0 ۲ <del>4</del>0 the the certificate authorizing to and registration in agrees date of Rico Puerto TENANT ൯ either from the (q.) **پ**. agent; and its Directors FIFTY-EIGHT: days Commonwealth of this Contract 0 f evidence thirty (30) Board of resident (a)

Development Puerto Rico; into subject shall constitute Development with, 0 ل Economic οf entered and approval complied Environmental Quality Board understood to Industrial Studies of the Contract and this Contract, which if not made upon the endorsement Rico shall be rescind this Contract is Puerto Economic approval the This the LANDLORD to the. 0 f <u>٦</u> Office Department such conditioned Administration and FIFTY-NINE: that conditions of the provided Planning entitle to and

respectivel IN WITNESS WHEREOF, LANDLORD AND TENANT hav this之子 Lease, upon proper authority this signed

PUERTO RICO INDUSTRIAL DEVELOPMENT COMPANY (LAWDEQRD)

BY: (LAWOTORD)

INSERT CORPORATION OF P.R. (INSERTCO) INC

TENANT)

: Cilche Kook - Revolt

SCHEDULE

⋖

NSERT CORPORATION OF P.R. INSERTCO) INC

0N S  $\vdash$   $\subseteq$ > 0 **11**  $\Omega$ ошаш ストコト AASH JO. 8 LOC AL 0 RI 52 J---1 RC DU 0 ALZHH A O H & H ШΟ OF SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION SOLUTION  $\vdash$ ZHZ PTION SECTIRO VIEWAN CRIHONT RET N O Y S шк H A & DVANA

#### ANDSITE:

ಹ O σõ თ .⊢ 20 ಗ ပဝ 0 a  $\sim$   $^{3}$  $\rightarrow$   $\sim$ 0 ר ה 4-10 OE on eri - Œ ىد ပ်⊏ ധര S S nt n, 00 --- ح 4 0 **~**-. > O .--ס ב ďД  $\overline{\phantom{a}}$ S a 0. ב' עם ىد ن ar us വ യ  $\Box$ ∺ d **ي** 

S  $\triangleleft$ ш ⊆ e b t = $\alpha$ 2  $\sigma < 0$ Q . . . 00 • ZUS 7 H T α¤ S 04.œ > >.-മെമ ىب Q. ב ס ש SOG ώĒ ≥ ~--\_\_\_\_ a \_\_\_ دب \* [---- u y ₹ O ₹ - v ⊐ エザウ RTI o NOR 今ちる? the ect si SOU by ar tr cal d 4 c ٠٠ ١٠ ١٠ O S nds th A" oui. wi Mu -- O --It Stree S 모느 SHB オッド

S w ٢. g =3 Ф S 0  $\sim$  $\infty$ 4 4 4 0 ď Φ ٤. ď Ü ιQ 4-3 W) OO م ت ชช ĔĿ · — ω × ¬ 00 04  $\Box$ р Д t-~1 ⊊ •  $\alpha \leftarrow$ SO  $\alpha +$  $\subseteq$ دد It ಹ > •—  $\supset$ σ

### ENCUMBRANCES:

>κ 3 4\_ 0 S <u>ب</u> 2 D <u>ب</u>. ب > ⊏ ั๗ ģ ರ Φ Ċ Φ 4-4ď د 0 ⊏ S • دب

UZ $\vdash$  $\prec$   $\vdash$  $\circ$ ÖШ ر- اــــ 0 50 22 z $\vdash$  $\Box$ **-** - $\vdash$  $\supset$  .  $\alpha$   $\alpha$ .  $\circ$ ON RMA нш і PT 6 HZMA A L J 20 C 0 S DAN

b Ūφ ် ပ n f o r ej nf ب ب Œ 4 5 0 ര D ğ b ټ. ب S 42 ·- 5 SO ς Ω. 0 0 ਹ ਤ S Ŋ S ے ہے، **a** a **├** ♥ ب- ج ⋾⋴ 90  $\sigma$  $\sigma$ >> ₪ 4 4- V 20 ro um d o ധ \_ O n ₽ o pi. on: b. יר מ みむし s da s i: un: of his fou roc <u>⊢</u> a a تو ب O O ے ہ ပပ ㅁㅁ 00 Ōυ

SP J4-. OXUH дδ  $\circ$ **⊆** 0 ਰ S വയ 4370404 000 199 31 30 80 6004 600 64 64 64 14 an a ea ( n-t( sto(  $\times 4$ or 140.33'
area of
00' with a
for an are
1d two len
sed for s
of 16,494 floor h an 9.00 00 fc s anc a main flo ons with a 3.50' x 9. ' x 21.00 cilities a ft. to be total area ts of imensions obby 28.5(sary feel sary feel コンナなってい out out a land sanita ce, ce, ean-r sa f 96 ō The structure of x 2.33 out to anufacturing space 00 sq.ft., two lest to be used for 0 with an area of ce facilities. The 50 - .00 .00 ft. 60 vice H +> 0429140 000000

<u>د</u> 0  $\circ \times$ ں شر 4 ىدىدە en en نہ . Ē 0 0 0 0 ن ن به ع ں ہے വ കെച്ച 0 > .ŭ m-- ∟ 447 שיי מיר rcectur. ဝ်ပာ ဇာဝ် nf( fa( re; ein nu a nd k re mar ice s ar ~ ick he ffi oms 0042 نہ r o r t P o r - 22 • 4 ∪ .- v L .-·- 0 0 4 K دو e fri r s りゅうよみ s of ment t tit ti sts cer alt consis ココロロー ന an an sta he the <del>(</del> 1 1 1 1 1 1 1  $\subseteq$ vi. So. ~ W W OE O'-

 $\sigma$ 2 ب шa ب ح  $\alpha +$ വധ D **P** 0 47 ದ ರ o o ىد نە ء ج **⊕** .⊢ th α S Q ಡ ~ 7 Ω. ⊏ ๗ w o ധ യ 0 5 — Φ ند و S ന വ 4---**Φ**---Q <u>ب</u> SNO  $\sqsubseteq \cdot \vdash$ 0 -ರ-⊏ ಹ تبت 무나무 e of wh-노드되 ಗ – ೭ S × × v \_\_ <u>-</u> + → ∨ wa oni rioni ہ، ک O ri( he co xten rttl NOM ₽ α Ω. ച മ  $^{\circ}$  $\times$  · $\vdash$ 

ק ס യഠ Z S ·-- ⊆ o ~ ರ ಇ ≥  $\sigma$ 모모 ർ ഗ უ ⊏ **u** -4 ي Œ ں تہ ഗ⊢ ರ∵-4 Ω. ىد υ⊏ ه يو ಥ⊑ Ψ  $\circ$ تړ 1 0 0 ⊑ > ≤ ധ⊷ ى ب — ർ **മ** ⊏ -9 2 2 + p+ .\_ **₽5**s a ە ب N air - 0 T الم الم വട് 노ઌ로 O ന ے ۔۔۔۔ 1.tl nt( en Φ മയ ىد رە б 0+0 ه به

MINIAL MERM



throughout the building and painted rubbed ล ก Ceilings

throughout the building the lean-tos. steel sash Louvers at e pivoted Aluminum Windows are except for Miami

glass, and except for one metal platform. l ones, e .loading e wood panel one at the .] Doors are s sliding o double

40 floor t beams. finish f part of area from to lowest Clearance in the manufacturing part of girders is 12'-o" ft. ]owest

Har Tellin

| · FRIEDOO! | . F-4202 |
|------------|----------|

# Commonwealth of Pherto Rico PUERTO RICO INDUSTRIAL DEVELOPMENT San Juan, Pherto Rico

SCHEDULE "B"

ESTIMATES PROJECT

| Comi         | Computed by:  | Ing. Miguel     | A. Arias                               | Sheet No. 1   | 0                           |
|--------------|---------------|-----------------|----------------------------------------|---------------|-----------------------------|
| Chec         | Checked by:   |                 | Date                                   | e : April 21  | 1, 1987                     |
| TST]         | ESTIMATE FOR: | Reparaciones    | s generales                            |               | Labor y <del>allerial</del> |
| CHO.         | PROJECT NO.:  | S-0113-0-52     | (Insertco Corp) San Germán             |               |                             |
| ORDER<br>NO. | QUANTITY      | UNIT OF MEASURE | 河 田 工                                  | Unit<br>Price | TOTE                        |
| 1            |               | L.S.            | Limpieza general de paredes, ventanas  |               |                             |
|              |               |                 | plafón y pisos, incluyendo lavado a    |               |                             |
|              | •             |                 | presión.                               | ·             | \$ 300.00                   |
| 2            |               | L.S.            | Resanado de paredes                    |               | 175.00                      |
| M            | 1,548         | yd. cua.        | Pintura interior de paredes, columnas  |               |                             |
|              |               |                 | y vigas (dos aplicaciones) Pintura     |               |                             |
|              |               |                 | aprobada por CFI                       | \$ 2.25       | 3,483.00                    |
| 7            | 1,482         | yd. cua.        | Pintura de plafón (dos aplicaciones)   |               |                             |
|              |               | ·               | Pintura aprobada por CFI               | 2.25          | 3,334.50                    |
| 5            | . 65          | yd. cua.        | Pintura de puertas de metal.           |               |                             |
|              |               |                 | Pintura aprobada por CFI               | 2.00          | 325.00                      |
| 9            | 33            | yd. cua.        | Piniura de puertas de madera.          |               |                             |
|              |               |                 | Pintura aprobada por CFI               | 5.00          | 165.00                      |
| 7            | П             | c/u             | Instalar puerta de metal de 6' x 7',   |               |                             |
|              |               |                 | ver especificaciones técnicas          |               |                             |
|              |               |                 | sección 6-A, incluyendo 'door stops    |               |                             |
|              |               |                 | and holders', Yale $\#823-1/2$ - igual |               |                             |
|              |               |                 | o similar                              | 650.00        | 00.059                      |
| ∞            | 17            | c/u             | Instalar cerradura en puerta de metal  |               |                             |
|              |               |                 | Yale #8750 with knob BWUS26D or Corbin | Ü             |                             |
|              |               |                 | 836US 26D', igual o similar            | 50.00         | 50.00                       |
| 6            |               | c/u             | Instalar 'Panic-exit device',          |               |                             |
|              |               |                 | vertical rod type Sargent No. 9700     |               |                             |
| 1            |               |                 | & Mortise loch type No. 9900           |               |                             |
|              |               |                 | including coordinator', igual o        |               |                             |
|              |               |                 | similar.                               | 200.00        | 500.00                      |
| 10           | 5             | c/u             | Instalar puertas de madera en 'embuia  | •             | ingline ment                |
|              |               |                 | de I 3/4", marcos de 'embuía.',        |               | J. 5                        |
|              |               |                 | incluyendo herrajes y aplicación de    |               | 7                           |
|              |               |                 | aceite de linaza, goznes - (3) por     |               | Ball                        |
|              |               |                 | ey 179,                                | 150.00        | 750.00                      |

FRIDEO F-4202

# Commonwealth of Puerto Rico PUERTO RICO INDUSTRIAL DEVELOPMENT San Juan, Puerto Rico

ESTINATES PROJECT

SCHEDULE "B"

Sheet No. Arias Ing. Miguel Ď. Computed

1987 4

ď 21,

7

April Date : \_ Reparaciones generales by: FGH ESTINATE Checked

| THO THOU     | FROJECT NO.: | (s-0113-0-52    | (Insertco Corp                                       |               |           |
|--------------|--------------|-----------------|------------------------------------------------------|---------------|-----------|
| ORDER<br>NO. | QUANTITY     | UNIT OF MEASURE | M T T                                                | Unit<br>Price | TOTAL     |
| 11           | .8           | c/u             | Instalar cerraduras Yale BW%\$01US26D                |               |           |
|              |              |                 | o Corbin 836-410-US260 - igual o                     |               |           |
|              |              |                 | similar                                              | \$ 35.00      | \$ 280.00 |
| 12           | 7            | c/u             | Instalar amortiguadores de puerta,                   |               |           |
|              |              |                 | "Yale Series 70, SB #74 with #209                    |               |           |
|              |              |                 | bracket', igual o similar                            | 75.00         | 300.00    |
| 13           | 156          | c/n             | Instalar operadores de ventanas                      |               |           |
|              |              |                 | 'Heavy duty' (ver especificaciones                   |               |           |
|              |              |                 | técnicas Sección 13).                                | 00.9          | 936.00    |
| 14           | 2            | c/u             | Instalar 'fog nozzle, bronze size                    |               |           |
|              |              |                 | 1 1/2" NST. (100'-0")                                | 30.00         | 00*09     |
| 15           |              | L.S.            | BAÑO DE DAMAS:<br>Limpieza general incluyendo equipo |               |           |
|              |              |                 | sanitario, piso, paredes, plafón,                    |               |           |
|              |              |                 | lavado a presión                                     | 125.00        | 125.00    |
| 16           | 104          | yd. cua.        | Pintura interior de paredes con                      |               |           |
|              |              |                 | 'epoxy' hasta el plafón, pintura                     |               |           |
|              |              |                 | aprobada por CFI                                     | 4.50          | 468.00    |
| 17           | 61           | yd. cua.        | Pintura de plafón, dos aplicaciones.                 | 2.50          | 152.50    |
| 18           | 76           | yd. cua.        | Pintura de divisíones de inodoros                    |               |           |
|              |              |                 | existentes de hormigón incluyendo                    |               |           |
|              |              |                 | puerta. Pintura aprobada por CFI                     | 5.00          | 380.00    |
| 19           | 10           | c/u             | Instalar válvulas de inodoro,                        |               |           |
|              |              |                 | '110 FYV Sloan Royal Flush Valve'                    |               |           |
|              |              |                 | igual o similar                                      | 105.00        | 1,050.00  |
| 20           | 1.1          | c/n             | Instalar asientos de inodoro, 'Moltex                |               |           |
|              |              |                 | No. 5320.114 - Black', igual o simila                | ≿ 20.00       | 220.00    |
| 2.1          | H            | c/u             | Instalar lavamanos 'American Standard                | TAR!          | HAL HENE  |
|              |              |                 | Regalyn Catalog No. 4867.024 wall                    |               | G.R       |
|              |              |                 | hanger, $20" \times 18"$ (enamel cast iron),         |               | <11.11    |
|              |              |                 | with supply fitting No. 2248.219,                    |               |           |
|              |              |                 | igual o similar                                      | 235.00        | 235.00    |
|              |              |                 |                                                      |               |           |

| SCHEDULE "B"                                                                                       |                                                                                                    | eet No. 3 of 4                                                                                         |                                                                                                                              |                                                                                                                                                                   |                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Commonwealth of Fuerto Rico<br>FUERTO RICO INDUSTRIAL DEVELOPMENT COMPANY<br>San Juan, Puerto Rico | PROJECT ESTIMATES                                                                                  | Ing. Miguel A. Arias                                                                                   |                                                                                                                              | Reparaciones generales                                                                                                                                            | S-0113-0-52 (Insertco Corp.) San Germán                                                                                                                                   |
|                                                                                                    |                                                                                                    | by:                                                                                                    | by :                                                                                                                         | FOR:                                                                                                                                                              | ,<br>Ç                                                                                                                                                                    |
| FRIDEO - 1202                                                                                      |                                                                                                    | Computed                                                                                               | Checked                                                                                                                      | ESTEMMTE                                                                                                                                                          |                                                                                                                                                                           |
|                                                                                                    | Commonwealth of Fuerto Rico<br>FUERTO RICO INDUSTRIAL DEVELOPMENT COMPANY<br>San Juan, Fuerto Rico | Commonwealth of Fuerto Rico FUERTO RICO INDUSTRIAL DEVELOPMENT San Juan, Fuerto Rico FROJECT ESTIMATES | Commonwealth of Fuerto Rico  PUBRTO RICO INDUSTRIAL DEVELOPMENT COMPANY  San Juan, Pierto Rico  PROJECT ESTIMATES  Sheet No. | Commonwealth of Fuerto Rico  PUERTO RICO INDUSTRIAL DEVELOPMENT COMPANY San Juan, Puerto Rico  PROJECT ESTIMATES Sheet No.  Ted by: Ing. Miguel A. Arias  Ced by: | COMMONIANT PLENTO RICO PUERTO RICO INDUSTRIAL DEVELOPMENT COMPANY San Juan, Plento Rico PROJECT ESTIMATES Sheet No.  Led by: Ing. Miguel A. Arias  Reparaciones generales |

| estimate<br>Project | E FOR:   | Reparaciones<br>S-0113-0-52 | es generales<br>(Insertco Corp.) San Germán |               | ng ang paggang ang ang ang ang |
|---------------------|----------|-----------------------------|---------------------------------------------|---------------|--------------------------------|
| UAN                 | QUANTITY | . UNIT OF MEASURE           | I T E M                                     | Unit<br>Price | TOTAL                          |
|                     | 10       | c/u                         | Instalar mezcladora Theritage spread        |               |                                |
|                     |          |                             | faucet with crown handles and grid          |               |                                |
|                     |          |                             | drain, 2248-219. (igual o similar)          | \$ 105.00     | \$ 1,050.00                    |
|                     | 4        | c/u                         | Instalar operadores de ventanas             | 00.9          | 24.00                          |
| ļ                   |          |                             | BAÑO DE CABALLEROS:                         |               |                                |
|                     |          | L.S.                        | Limpieza general incluyendo equipo          |               |                                |
|                     |          |                             | sanitario, piso, paredes y plafón.          |               |                                |
|                     |          |                             | Lavado a presión.                           | 125.00        | 125.00                         |
|                     | 84       | yd.cua.                     | Pintura interior de paredes en              |               |                                |
|                     |          |                             | 'epoxy' hasta el plafón, pintura            |               |                                |
|                     | ,        |                             | aprobada por CFI                            | 5.00          | 420.00                         |
| 1                   | 48       | yd. cua.                    | Pintura de plafón. Pintura aprobada         |               |                                |
|                     |          |                             | por CFI                                     | 2.25          | 108.00                         |
| į                   | 76       | yd. cua.                    | Pintura de divisiones de inodoros           |               |                                |
| 1                   |          |                             | existentes de hormigón. Pintura             |               |                                |
| - 1                 |          |                             | aprobada por CFI.                           | 5.00          | 380.00                         |
| ļ                   | 11       | c/u                         | Instalar válvulas inodoro. Véase            |               |                                |
| Į                   |          |                             | baño damas                                  | 105.00        | 1,175.00                       |
| - 1                 | 1.1      | c/u                         | Instalar asientos de inodoros.              |               |                                |
| - 1                 |          |                             | Véase baño de damas.                        | 20.00         | 220.00                         |
|                     | 6        | c/u                         | Instalar mexcladora. Véase baño dama        | 105.00        | 945.00                         |
| ļ                   | 2        | c/u                         | Instalar urinal 'American Standard'         |               |                                |
|                     |          |                             | alta F-6240 - igual o similar               | 190.00        | 380,00                         |
| 1                   | 2        | c/u                         | Instalar tapa drenaje de piso               | 5.00          | 10.00                          |
| ,                   | 1,350    | yd. cua,                    | EXTERIOR<br>Lavado a presión de paredes     | .20           | 270.00                         |
|                     |          | L.S.                        | les                                         | M 159:00      | 125.00                         |
| 7                   | 1,008    | yd. cua.                    | Pintura exterior, dos aplicaciones          | C.R.          |                                |
| 1                   |          |                             | pintura aprobada por CFI. Garantía          | 水             |                                |
| - 1                 |          |                             | en decoloración de 2 años                   | \$1.5°        | 2,268.00                       |
| - 1                 | 9        | c/u                         | de 10" x                                    | 22" 100.00    | 00.009                         |
|                     |          |                             |                                             |               |                                |

| i., | $\circ$ | , <b>\</b> I |
|-----|---------|--------------|
| ľ   | 呂       | R            |
| l   | 문       | 1            |

# Commonwealth of Puerto Rico PUERTO RICO INDUSTRIAL DEVELOPMENT San Juan, Puerto Rico

13 13

SCHEDULE

ESTIMATES PROJECT

1987  $_{\rm of}$ 21, April 4 Sheet No. Date:

> A. Arias Ing by: .: <u>ka</u> Computed Checked

Reparaciones generales ISTIMATE FOR:

| PROJ         | PROJECT NO.: | S-0113-0-52     | (Insertco Corp.) San Germân                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |              |
|--------------|--------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|
| ORDER<br>NO. | QUANTITY     | UNIT OF MEASURE | 强 包 计                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit<br>Price | TOTAL        |
| 37           | . 220        | p. In.          | Reparar verja de alambre de púas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$ 1.50       | \$ 330.00    |
| 38           | 737          | p. ln.          | Reparar verja de alambre eslabonado                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.00          | 737.00       |
| 39           | 350          | p. In.          | Instalar verja de alambre de púas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |              |
|              |              |                 | según especificaciones de CFI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4.50          | 1,575.00     |
| 07           | 077          | p. In.          | Instalar verja de alambre eslabonado                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |              |
|              |              |                 | 6'-0" según espec. por CFI (en frente                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |              |
|              |              |                 | y lateral izquierdo)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 19.00         | 8,360.00     |
| 41           | П            | c/u             | Reparar portón de 30'-0" incluyendo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |              |
|              |              |                 | tubos de anclaje de 4" día.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1,350,00      | 1,350.00     |
| 42           | , T          | c/u             | Instalar portón de 4'-0" incluyendo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |              |
|              |              |                 | tubo de anclaje.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 250.00        | 250.00       |
| 43           |              | L.S.            | Resanado de piso con mortero epóxico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 300.00        | 300.00       |
| 44           |              | L.S.            | Desyerbo y limpieza de lote                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 250.00        | 250.00       |
| 45           | 330          | p. ln.          | Pintar flashing de techo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .50           | 165.00       |
| 97           |              | L.S.            | Reparar grietas y fílos en plataforma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -             |              |
|              |              |                 | de carga                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 250.00        | 250.00       |
|              |              |                 | TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | \$35.606.00  |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |              |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |              |
|              |              |                 | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |               |              |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |              |
|              |              | ·               | THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE REAL PROPERTY AND A STATE OF THE PROPERTY AND A STATE OF THE PROPERTY AND A STATE OF THE PROPERTY AND A STATE OF THE PROPERTY AND A STATE OF THE PROPERTY AND A S |               |              |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |              |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | ,            |
| ,            |              | J               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |              |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |              |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |              |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | SMITTAL MERE |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | C.R          |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | XM           |
|              |              |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |              |